

SEQUENCE LISTING

<110> Craig Rosen,
Steve Ruben

<120> Human Cancer Associated Gene Sequences and Polypeptides

<130> PA106PCT

<140> Unassigned

<141> 2000-03-08

<150> 60/124,270

<151> 1999-03-12

<160> 1694

<170> PatentIn Ver. 2.0

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<211> 556

<212> DNA

<213> Homo sapiens

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<222> (546)

<223> n equals a,t,g, or c

<400> 1

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<212> DNA

<213> Homo sapiens

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<211> 813
<212> DNA
<213> Homo sapiens

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<222> (784)
<223> n equals a,t,g, or c

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<220>
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<223> n equals a,t,g, or c

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<220>
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<223> n equals a,t,g, or c

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<220>
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<222> (807)
<223> n equals a,t,g, or c

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<213> Homo sapiens

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<223> n equals a,t,g, or c

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<222> (2714)

<223> n equals a,t,g, or c

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<222> (2756)

<223> n equals a,t,g, or c

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<212> DNA

<213> Homo sapiens

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<222> (1246)

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<213> Homo sapiens

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<221> misc feature

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 <212> DNA
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<220>
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 <222> (1364)
 <223> n equals a,t,g, or c

<220>
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 <222> (1373)
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<210> 11

<211> 3804

<212> DNA

<213> Homo sapiens

<400> 11

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<210> 12

<211> 2157

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (806)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (846)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1517)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2110)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2116)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2137)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2150)

<223> n equals a,t,g, or c

<400> 12

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<210> 13

<211> 1117

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1102)

<223> n equals a,t,g, or c

<400> 13

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<210> 14

<211> 885
 <212> DNA
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (884)
 <223> n equals a,t,g, or c

<400> 14
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<210> .15
 <211> 1024
 <212> DNA
 <213> Homo sapiens

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 <222> (938)
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 <222> (1005)
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<220>
 <221> misc feature
 <222> (1012)
 <223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1019)
<223> n equals a,t,g, or c

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<210> 16
<211> 545
<212> DNA
<213> Homo sapiens

<220>
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<222> (40)
<223> n equals a,t,g, or c

<220>
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<222> (45)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (403)
<223> n equals a,t,g, or c

<220>
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<220>

<221> misc feature

<222> (507)

<223> n equals a,t,g, or c

<400> 16

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ctcaagagat gattcaaaaa acacgytgta tytgcaaatg aacagcctga aaaccngagg 480
acacagccgt gtattactgt accacangac ccctaattac tatgatagta rtgcaaaaag 540
ctttt                                           545
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<210> 17

<211> 623

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (613)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (616)

<223> n equals a,t,g, or c

<400> 17

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tggcagagct cacgtgcctc aacgaagcct cgggtgttgc caacctcaag gagcgttact 540
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ccgaggtggg ggnngngggc ggt                                           623
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<210> 18

<211> 559

<212> DNA
<213> Homo sapiens

<220>
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<222> (371)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (531)
<223> n equals a,t,g, or c

<220>
<221> misc feature
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<220>
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<222> (547)
<223> n equals a,t,g, or c

<220>
<221> misc feature
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<223> n equals a,t,g, or c

<400> 18
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gcgngcnacg gtattngga 559

<210> 19
<211> 1355
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (55)
<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (1045)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1355)
<223> n equals a,t,g, or c

<400> 19
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ttcccagcca ccactctgat actcctacca cccttgccag ccatagcacc aagactgatg 240
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ctgaaatgtt tttgcagatt tataaacaag ggggttttct gggcctctcc aatattaagt 480
tcaggccagg atctgtggtg gtacaattga ctctggcctt ccgagaagggt accatcaatg 540
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaan 1355

<210> 20
<211> 1280
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1043)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1162)
<223> n equals a,t,g, or c

<400> 20
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tcacgaccaa aggtgtcacc tcagtctctc agatcttcca cagcccagac ctggccataa 180
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ttcacttcaa aaactcagtt ataaaagtgc ccatgatgaa tagcaagaag tacctgtgg 480
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<210> 21

<211> 1191

<212> DNA

<213> Homo sapiens

<400> 21

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ttgaagcaca aacatattct catttttatt tccccatac cttgaagggt ttcttctgca 180
catgtatttg tttgatctgc cttttgtgcg tggggtggga gttaggtagg aatcttaaag 240
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ccacctttgt gatagtgaag cttccacatg ctcaactcagc cccttctgct ctctcttctt 360
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gggtgctgtg tgtgcacaaac ttcaacttta catgtggggc tgagtcccta tggtgtatat 480
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gcatttgtta tattacaaaa cataacaaaa ataatagggg tagggagggtg cagatgttgg 720
tcaaaggata taaacctgca gttctatgat gaataagttc tggacatctg gaatacagca 780
tggtgactat acttagtaat actatattgt acacttgaag cttactgaaa gagtaaactc 840
caagtgttct caccacacaa acccaaagg aactatgttc tcaccacaca aacccaaagg 900
gaactatgta ttaattagct tgattgtggg aaccatttca caatgtatac atttgccaaa 960
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gaaagagggg attactaatt cccacaaaat acagatttaa caaaaacttt tattcaacaa 1080
acagtgtctat gaagttgtaa attggaacaa aaagaaataa aatttcatcc acagtcttct 1140
catcaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaactcgtag g 1191
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<210> 22

<211> 853

<212> DNA

<213> Homo sapiens

<400> 22

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cttggaggat ttggaactag ctctggtttt ggatgcagca ccacaggggc ctccacattt 180
ggatttgga caacaataa accctcagga agtcttagtg caggcttttg cagctcaagt 240
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gtgtccaatc ctgcctctgc aggtttttgga acaggaggac aactccttca gttgaagaaa 360
cctccagctg graacaaaag aggaaaaaga taaacatggg ttgatgtgtt gagagaatcc 420
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gtttgccata ctgaacawct ttttcttgtt ggaattttaa gtccagctgt gttttctttt 600
taatttgatt ctcatgttaa gaaatgttct gattacatca ctgattggta atggtagtaa 660
accattaacc taaaacttac tatttaacct agtgtttttg ttgatgaggt ttacattatg 720
tgaatacatg cacatttggt tcttatacag gtggtgtgaa ctctaggggc tatactagaa 780
tcaatttggt ccttgtttaa ggccttttga attatactgc agggcatctt gtgaatatgt 840
atgtaaatat ata 853
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<210> 23

<211> 474

<212> DNA

<213> Homo sapiens

<400> 23

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caggtaatat ttgacttttg cttcatatta atctgagtgg aaaataaaag ggccctcttc 120
tcctctcgct tccctgccgg gcaggcgcca tggcggaagc tcggcgacgg gcgcctgcgg 180
agaggcgatg gcagcgggcg aaggctcctc gggcccgggc ggcttgactc tgggcccggag 240
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gacgggcttc tccggcatga agggctgagg ctgcaaggtc ccgagaggc gctgctcaaa 360
ctcctggcgg gactgamgcg gccggacktk cggcccgctc gggccggggc ctkgtkggk 420
gccargaara agcgtccag gaagccggcc tgccggcaag agcggggccc agcc 474
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<210> 24

<211> 2280

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> {13}

<223> n equals a,t,g, or c

<400> 24

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gcataaagag cttcaagaac aagggccggc atgtggaaac aatgcgaaga catagaaatg 180
aagtgcagct ggaactgcgg aagaacaaa gagatgaaca cttattgaaa aagagaaatg 240
ttccccaaga agaaagtcta gaagattcag atgttgatgc tgattttaaa gcacaaaatg 300
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```

taaccctaga agctatattg cagaatgcc aagtgataa cccagtgggc caattgagtg 360
ctgtccaggc agcaagaaaa ctgttatcca gtgacagaaa tccaccgatt gatgacttaa 420
taaaatcttg gattttacca attctagtca aatgtctaga aagggatgat aatccttcat 480
tacagtttga agctgcttgg gcattacta acatagcadc aggracttct gcacagactc 540
aagctgttgt gcagtctaata gcagtaccto tttttctgag acttcttctg tcaccacatc 600
agaatgtttg tgaacaagca gtatgggctt tgggaaacat tatagggtgat ggtcctcaat 660
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cctccacaaa catattttca tattctttat gtggaagaat agattttaaa gtacaagcca 2160
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<210> 25

<211> 1061

<212> DNA

<213> Homo sapiens

<400> 25

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atggcaggct ctgaagagct ggggctccgg gaagacacgc tgagggtcct agctgccttc 180
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aaccagaagc tggcctcgga ccccgccctg cgcacaagct ggtccgcctg tcctccgact 600
ctttcgcccc cctggtggag ctgttctgta gccgggatga cagctctcgc ccaagccgag 660

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catgccccgg gcccccgcct cttccccgg agcccttggc ccgcctggcc ctagccatgg 720
agctgagccg gcgcgtggcc gggctggggg gcaccctggc cggactcagc gtggagcacg 780
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cacctcatgt cctgcccctc ttctgtgtgt tttccaagtc ttctattcc actcagggtc 960
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ttaaaaacgt tacaaaaaaa aaaaaaaaam agggggggcg c 1061

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<210> 26

<211> 1572

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (19)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (28)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1491)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1527)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1555)

<223> n equals a,t,g, or c

<400> 26

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gggcagctgc ggacatgtcg accccggccc ggaggaggct catgcgggat ttcaagcggg 180
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aatatgagaa aagagtttcg gccattgttg aacaaaagctg gaatgattca taatagacaa 600
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acaaatttta agtgcacag gttttaagga ttctgcagaa aaaaaagaaa aaagtccttc 720

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```

agtttagaac ctacaaaagc ttgtgtatct tgattaatgt actttttatt gcatgggtgtg 780
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taatgttggt gtggagtttt catgacagaa tatacacatt ttgtaaatct gtactTTTTT 900
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<210> 27

<211> 2005

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1976)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1977)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1978)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1979)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1986)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1988)

<223> n equals a,t,g, or c

<400> 27

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cgcctccgcc gcctagcgct gttcccgggt gtggcgctgc ttcttgccgc ggcccgcctc 180
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aagggtgatt gcaactgcca cactaacacc tgaataaat atggagtcag tggatatcca 420
accctgaaga tatttagaga tgggaagaa gcaggtgctt atgatggacc taggactgct 480
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aagagatacc tgaagtctga acctatcca gagagcaatg atgggcctgt gaaggtagtg 1260
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ccttctccat atgaagtcag aggttttcct accatatact tctctccagc caacaagaag 1500
ctaaatccaa agaaatatga aggtggcgt gaattaagt attttattag ctatctacaa 1560
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gaggacagaa tggatataat ctgaatcctg ttaaattttc tctaaactgt ttcttagctg 1800
cactgtttat ggaataacca ggaccagttt atgtttgtgg ttttgggaaa aattatttgt 1860
gttgggggaa atgtgtgtgg ggtgggggtg agttgggggt attttctaat tttttttgta 1920
catttggaac agtgacaata aatgagacc ctttaaaaaa aaaaaaaa aaaaannnnng 1980
gggggncnc cagtcaccatt cgccc 2005
```

<210> 28

<211> 1408

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<400> 28

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cccgcagaca ngcaattttc acctgtgagg tccttggtgt ctactacttt gsataccacg 60
ttcactgcaa ggggggcaac gtgtgggttg ctctattcaa gaacaacgag cccgtgatgt 120
acacgtacga cgagtacaaa aagggttcc tggaccaggc atctgggagt gcagtgtgct 180
tgctcaggcc cggagaccgg tgttcctcca gatgccctca gaacaggctg caggactgta 240
```

```
tgccgggcag tatgtccact cctccttttc aggatattta ttgtatccca tgtaaaaaa 300
aaaaaacaaa aaacaaagaa aagaaagaga ttttatagaa gaaaatgaca caccaaaaaa 360
tccaaatgaa aaacataatt gcttcaaac acttacacag ttggaaagt atagtgaagt 420
gaaaatttgg accatttgtt acaataaaaa actaagatgc atgtttaata ctccacacag 480
cagcctgtaa ttgcgaatga tgggatatag ttatgtatca agtactgaca cttgggtgta 540
cccactggaa tcatatttagc tgttttatgt tataatgcttc cacagtaacc tgcttattca 600
gatcagtcac aatatatcag tatgaaagat catagctaag gaaaggcact cactcatatt 660
gtttacttta aaatatattt aaatatgcct taaagaaata caaatgataa caattacata 720
ccgtatttac ttgcttaatt tcctctgtat ttgtgtagat actttgacat ggaatatatg 780
gtggggagac ccgtagtgtt accgccccag tgggaggggg ccctgggacc ctgggtaatgc 840
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cgtcagaatt gcgtgtctgt tgtctctaaa agaattgggtg aaccaatcgg cctttgtgaa 960
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ttcctccatg taattttcac tatggcccaa ctaatatata cactgggaa attacaagga 1200
aaaaaaattc ttctctaat aactttccaa atttgaggaa tatttatttg taatagcagt 1260
tatcagttat gcttatatag cattaaaaat tctcctcctt tgactacaca cacaaccaca 1320
gtgtgttct aatcatggag atatcagtaa tttttagtaa ctgarttttg aggacatttc 1380
tctgtttagc atgtatgcaa actggata 1408
```

<210> 29

<211> 917

<212> DNA

<213> Homo sapiens

<400> 29

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ggcacgagcg aggggaggag ccgtggctc ccagccccgc cgcgatgagc ctgggccgcc 60
tttgccgcct actgaagccg gcgtgctct gtggggctct ggccgcgcct ggccctggccg 120
ggaccatgtg cgcgtcccgg gacgactggc gctgtgcgt ccattgcacga kttttccgcc 180
aaggacatcg acgggcacat ggttaacctg gacaagtaac ggggcttcgt gtgcacgtc 240
accaacgtgg cctcccagtg aggcaagacc gaagtaaaact aactcagct cgctcagctg 300
cacgcccgat acgctgagtg tggtttgcg atcctggcct tcccgtgtaa ccagttcggg 360
aagcaggagc caggagataa cgaagagatc aaagagttcg ccgcgggcta caacgtcaaa 420
ttcgatatgt tcagcaagat ctgctgaac ggggacgacg cccaccgcgt gtggaagtgg 480
atgaagatcc aacccaagg caagggcac ctgggaaatg ccattcaagt gaacttcacc 540
aagtccctca tcgacaagaa cggctgcgtg gtgaagcgt acggacccat ggaggagccc 600
ctggtgatag agaaggacct gcccactat ttctagctcc acaagtgtgt ggccccgccc 660
gagccccctg ccaagcccty ggagccttc accggcactc atgacggcct gcctgcaaac 720
ctgctggttg ggcagaccg aaaatccagc gtgcaccccg ccggaggaag gtcccatggc 780
ctgctgggct tggctcggcg ccccaacccc tggctacctt gtgggaataa acagacaaat 840
tagcaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 900
aaaaaaaaaa aaaaaaa 917
```

<210> 30

<211> 577

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (501)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (534)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (568)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (575)
 <223> n equals a,t,g, or c

<400> 30
 aattcggcac gaggtcatct ggtggaaaag gagactttaa gattgttttag ggctgggagg 60
 ggtgactcac atctgtaatc ccagcacttt gggaggccaa ggcaggcaga acacttgaag 120
 gagttcaaga ccagcgtggc caacgtggtg aaccctgtct ctactaaaaa tacaaaaatt 180
 gtttagctct gtttttcata atagaaatag aaaaggtaaa attgcttttc ttctgaaaag 240
 aacaagtatt gttcatccaa gaagggtttt tgtgactgaa tcagcagtgc ctgccctagt 300
 catagctgtg cttcagaaac ctcagcatga ttagtgttkg agcmmaacaa ggragcaaag 360
 caaatwcwgt ttttgaaatt ctatctgttg cttgaactat ttgttaataa ttaaaacttg 420
 gatgttgaga aatcacaaact ttattggtac acttcattgc aacttgaaat tccatgggtc 480
 ttaaaagtga attggaattc naatgggcgg cctttaaaaa gtaattccca accnttaagg 540
 ttaaaaccca ggaaattggg gccaatcnaa aaccngg 577

<210> 31
 <211> 2059
 <212> DNA
 <213> Homo sapiens

<400> 31
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 gtcaaccatc tcatcattct ttccacctgg gtaccaagtc tctttctgct tggatgatgg 120
 actccttttt gcagtggaca caggactata tttctctgtg aagacaaaca ttcgaagctc 180
 aacaagagac tgaaggacc ataaatttaa atggagaaag gaccctcaag acaaatgacc 240
 cccatcccat gggggtaata agagcagtag cagcagcatc tctgaacatt tctctggatt 300
 tgcaaccca tcatcctcag gcctctctac aagcagcagg aaacatagaa ctcagagcca 360
 gatcccttat ccaactctcg acttttcctt ggtctccagt ggaagggaaa agcccatgat 420
 cttcaagcag ggaagcccca gtgagtagct gcattcctag aaattgaagt ttcagrgcta 480
 caaaacamt tttctgtccc aaccgttccc tcacagcaaa gcaacaatac aggctaggga 540
 tgaaggagga gtgcaaaara gtgtccccc cctcctgccc ccgcgaccgt ttgcccaccc 600
 ttcggaagac ccagtgtgtg gatgagtagt agtgtgcctg caactgtgtc aatccacagt 660
 gagctgtccc cttgggtact tggcctcaac cgccaccaat gactgtggct gtaccacaac 720
 caccgtcctt ccgacaagg tgtgtgtcca ccgaagcacc atctaccctg tgggccagtt 780
 ctgggaggag ggctgcatg tgtgcacctg caccgacatg gaggatgccg tgatgggcct 840
 ccgctgtggc cagtgtctcc agaagccctg tgaggacagc tgctggtcgg gcttcactta 900

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cgttctgcat gaaggcgagt gctgtggaag gtgcctgcc tctgctgtg aggtggtgac 960
tggctcaccg cggggggact cccagtcttc ctggaagagt gtcggctccc agtgggcctc 1020
cccgagaaac cctgcctca tcaatgagtg tgtccgagtg aaggaggagg tctttatata 1080
acaaaggaac gtctcctgcc cccagctgga ggtccctgtc tgccccctcg gctttcagct 1140
gagctgtaag acctcagcgt gctgcccagg ctgtcgtgtg gacgcgatgg aggcctgcat 1200
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ctgcaacccc tgccccctgg gttacaagga agaaaataac acaggtgaat gttgtgggag 1380
atgtttgcct acggttgca ccattcagct aaggaggagg cagatcatga cactgaagcg 1440
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gtgcaacgac atcactgccg ggctgcagta tgtcaagggt ggaagctgta agtctgaagt 1680
agaggtggat atccactact gccagggcaa atgtgccagc aaagccatgt actccattga 1740
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ctgtgcctg ccttgccctga tggccaggcc agagtgtgc cagtccctg catgttctgc 1980
tcttggtccc tctgagccc acaataaagg ctgagctctt atcttgcaaa aaaaaaaaaa 2040
aaaaaaaaa aaaaaaaaaa 2059

```

<210> 32

<211> 549

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (337)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (378)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (497)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (537)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (546)

<223> n equals a,t,g, or c

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<400> 32
gcagcgaggg agctgctctg ctacgtacga aaccccgacc cagaagcagg tcgtctacga 60
atggttttagc gccaggttcc ccacgaacgt gcggtgcgtg acgggcgagg gggcgccgc 120
tctagaggat ccaagcttac gtacgcgtgc atgcgacgtc atagctcttc tatagtgtca 180
cctaaattca attcactggc cgtcgttita caacgtcgtg actgggaaaa ccctggcgtt 240
acccaactta atcgccttgc agcacatccc cctttcgcca gctggcgtaa tagcgaagag 300
gcccgcaccg attcgccctt tcccaacagt tgcgcancgt gaatggcgaa tggggacgcg 360
ccctgtatgg gcgcgttnaa gcgcggcggg tgtggtggtt acgcgcagtg gacccgctac 420
acttgccagc gccctagcgc ccgctccttt cgtttcttcc ccttccttcc tcgccacgtt 480
cgccggcctt ccccttnaag ctctaaatcg gtgggctccc tttaggtgtc ctatttngtg 540
ctttanggt                                     549

```

```

<210> 33
<211> 841
<212> DNA
<213> Homo sapiens

```

```

<400> 33
gctttgaacc tcaacagcca gctgaacata cccaaagaca caagccaact gaagaaacat 60
atcaccttgc tctgcgatag attatccaaa ggtggccgtc tctgcctaag taccgatgca 120
gcagccccac agaccatggt catgccaggt ggttgacta caatcccaga gtcagacctc 180
gaagaaagat cagtagaaca agactctaca gaactgttta ccaaccacag acatctcact 240
gcagagacac ccaggcctgt ttcacccctc caaggagtct cgggaataatt ccaagtagag 300
ttgtttggtt gagaggaaca tccccatctc aaggccgaac ctgtgtgaac ctcatgccaa 360
gcacagatat arggctggcg cagggtgcttc cyaaagctya ccttcctgga gatgacatgc 420
atagaaagag gggttgggac tttttacttc actaggagaa cttgtaacac catggggaag 480
tcagctgaaa cttgtcttgt ttgcccagga aaggaagtag ttgcctttgg tcatccatct 540
gctaatagtc acagaataca gtgaaatgac atagttttgg gttagatttt ataatgcaa 600
gattcagatc caaaataatt tcatacccca ttttttcaca gaattcttat atagtaaattg 660
tatcaagttt aataaagcat ctcatgttca aataatatct tggattttat ttataattag 720
agggatttat gattgattgc tctacattat ttcttcaaag gaaaggaaag gaattgaaga 780
ctttgctact ctctggtaag acttgaatgt gattatttta taaataaaaag aaccactatg 840
a                                                                                   841

```

```

<210> 34
<211> 863
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (19)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (29)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature

```

<222> (44)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (58)

<223> n equals a,t,g, or c

<400> 34

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accaaaaaag ctttggagnt ttccaaccnc cggtttgccg ccngttttt tagaactnag 60
tggaatcccc ccggggcctt caaggaatto ggcacgagtt tgetttagcg cagacgggga 120
agcggagcca acatgccagt ggcgggagc tgggtttgtc gcaaaactta tgtgaccccg 180
cggagaccct tcgagaaatc tcgtctcgac caagagctga agctgatcgg cgagtatggg 240
ctccggaaca aacgtgaggt ctggagggtc aaattttacc tgccaagat ccgcaaggcc 300
gcccgggaac tgctgacgct tgatgagaag gaccacggc gtctgttcga aggcaacgcc 360
ctgctgcggc ggctgggtcg cattgggggtg ctggatgagg gcaagatgaa gctggattac 420
atcctgggcc tgaagataga ggattttcta gagagacgcc tgcagaccca ggtcttcaag 480
ctgggcttgg ccaagtccat ccaccacgct cgcgtgctga tccgccagcg ccatatcagg 540
gtccgcaagc aggtggtgaa catcccgctc ttcattgtcc gcctggattc ccagaagcac 600
atcgacttct ctctgcgctc tccctacggg ggtggccgcc cgggccgcgt gaagaggaa 660
aatgccaaag agggccaggg tggggctggg gctggagacg acgaggagga ggattaagtc 720
cacctgtccc tcctgggctg ctggattgtc tcgttttctt gccaaataaa caggatcagc 780
gctttacaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 840
aaaaaaaaa aaaaaaaaaa ttt 863
```

<210> 35

<211> 1230

<212> DNA

<213> Homo sapiens

<400> 35

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tgagggaatt cggcagcagc ccagcgcgcg cgcctatgtc tccggggcta gcgcgagcgc 60
cctgcagcgc ttggtagagc agctcaagtt ggaggctggc gtggagagga tcaaggcttc 120
tcaggcagct gcagagcttc aacagtactg tatgcagaat gcctgcaagg atgccctgct 180
ggtgggtgtt ccagctggaa gtaaccctt ccgggagcct agatcctgtg ctttactctg 240
aagactctag gagagaagtt tgctgaggaa tgccttcaag cacaagtgat tgaatgactg 300
ccttcaagtc tcaagaaaac acttttcctt aacttttaga gatatttcag ccctttcctg 360
tggcctggtc ctatagccaa aatcacagat attcatgagt ttctacttga gtgagaaaac 420
tgggtgaagg aatagaatct taaatagtaa taactgcttg ttttttttgt gcaagtactt 480
ttatacataa gataaacaaa aaccttacca ccaaacatac caaaatgcac ctctttcata 540
agtgaattac taagatttct atacctgga tatcatgtat gtttcattta ctggatgttt 600
acattttagg aaggaaaata gtttgtttta tttaaacaac tgaatactta taaactgttg 660
ttcctggaag ttattttatc cataaaaaat ttgttctttt ctcatgaatt tataattcct 720
aaatgaagac cagaaagtac aaattgctgg gaggaagaat aggcctttatt aatcaactga 780
tgtcttgatt ttctataaat ggaagattgc tttattttta acactaatta tgggagcaga 840
ttcttagcaa acttcttttg aaaagttaat gttatgatgt gcattaggct gcccacgt 900
gtatataaat gaagcagatt tgatttttgt attcttacgt ttctctgctt tgtagttgtg 960
gtgttactta aagaaatata gaatttcata tatttaaaaa tgttttaaat gtgaccaca 1020
gaacattgta aatgattaaa aactaacatg aaaatattac aacctaaaag aattcttaac 1080
ttcacaagtg ttttactctg acgatgtgcc tttgatttaa tttgggacac ttttttagaa 1140
ggatacatta ttcgtgtttg caacggtctt tgaagagctt ggaaataaaa tttctgctta 1200
```

attaatcatt tttctatgac agcaaaaaaa

1230

<210> 36

<211> 640

<212> DNA

<213> Homo sapiens

<400> 36

caaccctaat cgctcactat agggaaagct ggctgcctgc aggtaccggt ccggaattcc 60
cggtgcgacc cagcggtccg gctgtctgaa gatagatgc catcatgaac gacaccgtaa 120
ctatccgcac tagaaagttc atgaccaacc gactacttca gaggaaacaa atggtcattg 180
atgtccttca ccccggggaa ggcacagtgc ctaagacaga aattcgggaa aaactagcca 240
aaatgtacaa gaccacaccg gatgtcatct ttgtatttgg attcagaact cattttgggtg 300
gtggcaagac aactggcttt ggcatgattt atgattccct ggattatgca aagaaaaatg 360
aaccctaaaca tagacttgca agacatggcc tgtatgagaa gaaaaagacc tcaagaaagc 420
aacgaaagga acgcaagaac agaataaga aagtcagggg gactgcaaag gccaatgttg 480
gtgctggcaa aaagccgaag gactaaaggt gctgcaatga tgttagctgt ggccactgtg 540
gatttttcgc aagaacatta ataaactaaa aacttcaaaa aaaaaaaaaa aaaaaaaaaa 600
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg

640

<210> 37

<211> 597

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (32)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (556)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (558)

<223> n equals a,t,g, or c

<220>

<221> misc feature
 <222> (567)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (590)
 <223> n equals a,t,g, or c

<400> 37
 ggtgagaccn tctanaatat ggttccccgg gntgcccatt cgccaagggtg ctccggtcctt 60
 ccgaggaagc taaggctgcg ttgggggtgag gccctcactt catccggcga ctacgaccgc 120
 gtccggcagc gccagcccta cactcgcccg cgccatggcc tctgtctccg agctcgcccg 180
 catctactcg gccctcatto tgcacgacga tgaggtgaca gtcacggagg ataagatcaa 240
 tgcctctatt aaagcagccg gtgtaaatgt tgagcctttt tggcctggct tgtttgcaaa 300
 ggccctggcc aacgtcaaca ttgggagcct catctgcaat gtaggggccg gtggacctgc 360
 tccagcagct ggtgctgcac cagcaggagg tcctgcccc tccactgctg ctgctccagc 420
 tgaggagaag aaagtggag caaagaaaga agaatccgag gagtctgatg atgacatggg 480
 ctttggctct tttgactaaa cctcttttat aacatgttca ataaaaagct gaactttaaa 540
 aaaaaaaaaa aaaaancncg ggggggnccg ctttaaaggg tccaagttn gtacggg 597

<210> 38
 <211> 624
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (79)
 <223> n equals a,t,g, or c

<400> 38
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 ggggcgcgcg agctcgcnct ctctctgacc ccgkactg gggccgaggc gaaggagggtg 120
 gagggagacca tcgagggcat gctcctcagg ctggaagagt tttgcagcct ggctgacctg 180
 atcaggagtg atacttcaca gatcctggag gaaaacatcc cagtccttaa ggccaaactg 240
 acagaaaatgc gtggcatcta tgccaaagtg gaccggctag aggccttcgt caagatggtt 300
 ggacaccacg tcgccttcct ggaagcagac gtgcttcagg ctgagcggga ccatggggcc 360
 ttccctcagg ccctgcggag gtggctggga tccgaggct cccctccttc aggaacaagt 420
 camctgsacc kgtgcccggt acgtacgagc tgccacact gtataggacg gaggactatt 480
 ttctgtgga cgcgggkaa gcacagcamc amccccgcac ctgcccctcg cctttgtgag 540
 ctttgtgggtc ttccatcag gaacactgga aagtgcatt gtgtacacgc tgcagcttgg 600
 ggggtttttc tttgtattgc tgtt 624

<210> 39
 <211> 1029
 <212> DNA
 <213> Homo sapiens

<400> 39
 ggccctcga gggatcctct agagcggccg ccgactagt agctcgtcga ccgggaatt 60

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cgcgggccgcg tcgacgctca gtcttcacc aaaggccgtt cagttctcct gggctccagc 120
ctcctgcaag gactgcaaga rttttcctcc gcagctctga rtctccactt ttttggtgga 180
gaaaaggctgc aaaaagaaaa agagacgcag tgagtgggaa aagtatgcat cctattcaaa 240
cctaattgaa tcgargarcc caggacaca cgccttcagg tttgctcarg ggttcattt 300
tggtgcttag acaaattcaa aatgaggaaa catoggcact tgcccttagt ggccgtcttt 360
tgctcttttc tctcaggctt tctacaaact catgcccagc agcagcaagc agtcattgaa 420
gtcaacaaga gagacatagt cttcctggtg gatggctcat ctgcaactggg actggccaac 480
ttcaatgcca tccgagactt cattgctaaa gtcatccaga ggctggaaat cggacaggat 540
cttatccagg tggcagtggc ccagtatgca gacactgtga ggccctgaatt ttatttcaat 600
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<210> 40

<211> 1107

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1098)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1106)

<223> n equals a,t,g, or c

<400> 40

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acaaattggt gttctaaatg tottaagaac ctaattaaat agctgactac aaaaaaaaaa 1020

```

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ccccgggggg 1080
gggcccgtt cccatttngc cctttng 1107

<210> 41

<211> 1051

<212> DNA

<213> Homo sapiens

<400> 41

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<210> 42

<211> 2192

<212> DNA

<213> Homo sapiens

<400> 42

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<210> 43
<211> 353
<212> DNA
<213> Homo sapiens
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```
<220>
<221> misc feature
<222> (37)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (348)
<223> n equals a,t,g, or c
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<400> 43
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catggtggct gaaaagcggc tcatcccaga tggctgtggg gtcaagtaca tcccagtcg 180
tgccctctg gacaagtggc gggccctgca ctcatgaggg ctccaatgt gctgcccccc 240
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaanaa aag 353
```

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<210> 44
<211> 3490
<212> DNA
<213> Homo sapiens
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<220>
<221> misc feature
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<222> (782)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1311)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2298)

<223> n equals a,t,g, or c

<400> 44

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```

<210> 45

<211> 781

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (750)

<223> n equals a,t,g, or c

<400> 45

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t

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<210> 46

<211> 1431

<212> DNA

<213> Homo sapiens

<400> 46

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<210> 47

<211> 1913

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (43)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1878)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1896)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1905)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1907)

<223> n equals a,t,g, or c

<400> 47

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cctggaatct ttggatgtgt gccagttca cagattggac cctattgggt ttgtggtggg 1860
ccagggcata caaagacntc attggactaa ttcaacttcc cccgnanagc ccc 1913
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<210> 48

<211> 1761

<212> DNA

<213> Homo sapiens

<400> 48

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cgaggagctc tgaggcttat gctcagctgt gcaacgtggc togcattgag gcagagcggg 60
aggccggggc caacttccgg ccaggctatg agtatggccc cgggcccgat gacctgcact 120
acagcateta tggcccagat gggggccctt tctacaacta cctgggcccc gaggacaccg 180
```

```

tccctgagcc tgccttcccc aacacagccg gtcactcagc ggaccgcaca cccatccttg 240
agtctccttt gcagccctca gaactccagc cccactacgt ggccagccat ccagagcccc 300
cagccggctt cgaagggtt caggcggagg agtgccgcat cctgaacggc tgtgagaatg 360
gccgctgtgt gcgcgtgctg gagggtctaca cctgtgactg ttttgagggc ttccagctgg 420
atgcggccca catggcctgc gtagatgtga atgagtgtga tgacttgaaac ggccctgctg 480
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tcatctctcc cagcttagcc tctggctgta agcttcggtc attgcctcca tgcccttget 780
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aaaaaaaaaa aaaaaaaaaa g 1761

```

<210> 49

<211> 956

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (37)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (352)

<223> n equals a,t,g, or c

<400> 49

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tgcaggagtt cggcacgagg gtatttagag cgcaggntcg acgggccgga tgccttcgc 60
cgccgccgcg ccgcaaacct tcgtgccggg cccgtcctcg ccccgccctc cgccacgcgc 120
tcggcccgca gagcttgccc cctcccacc cgcagacatg tccgagtcca agagcggccc 180
cgagtatgct tcgtttttcg ccgtcatggg cgcctcggcc gccatggtct tcagcgcct 240
gggcgctgcc tatggcacag ccaagagcgg taccggcatt gcggccatgt ctgtcatgcg 300
gccggagcag atcatgaagt ccatcatccc agtggatcat gctggcatca tngycatcta 360
cggcctggtg gtggcagtc ccatcgccaa ctccctgaat gacgacatca gcctctacaa 420

```

gagcttcctc cagctgggcg ccggcctgag cgtgggcctg agcggcctgg cagccggcctt 480
tgccatcggc atcgtggggg acgtggcgt gcggggcaac gccagcagc cccgactatt 540
cgtgggcatg atcctgattc tcattctcgc cgagggtgctc ggccctctacg gtctcatcgt 600
cgccctcatc ctctccacaa agtagaccct ctccgagccc accagccaca gaattattatg 660
traagaccac cctcctcat cgccctcca ggccccggc gccccacccc ctagagtgt 720
ctgtgtatgc ggatgattta gaattgtcat ttctctttac tggatgttta ttataaaga 780
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wmcgkcccggt ggccctgcgc ggagctgtgt ccaataaagt tcttggatgt gaaaaa 956

<210> 50

<211> 563

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (510)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (519)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (530)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (558)

<223> n equals a,t,g, or c

<400> 50

cgagcgcgtg ggcgccctcc gaatccagag aggcgctgct gacaccgccg ccacaccgcc 60
gccacaccgc cgctgcctca gtcattgccga agcagcagtt ctctgtggac atgacctgtg 120
gaggctgtgc tgaagctgtc tctcgggtcc tcaataagct tggaggagtt aagtatgaca 180
ttgacctgcc caacaagaag gtctgcattg aatctgagca cagcatggac actctgcttg 240
caaccctgaa gaaaacagga aagactgttt cctaccttgg ccttgagtag caggggcctg 300
gtccccacag cccacaggat ggaccaaagg gggcaggatg ctgatcctcc cgctggcttc 360
cagacagacc tgggacttgg cagtcattgcc gggatgatgg gttcctgcgg agaccctcag 420
ttgtcctatt ccttcctagc ttccctgcaa taaaatcaag ctgcttttgt tggaaaaaaa 480
aaaaaaaaa gggggcgtct aaaaaccaan ttatttcctt gatgaaaten acctctttgt 540
tccattcat ccggcctnaa aaa 563

<210> 51

<211> 3215

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3196)

<223> n equals a,t,g, or c

<400> 51

```
gcctcgggtg ggggtgggagc ggggggggaca gtgccccggg aacccgggtg gtcacacaca 60
cgcaactgcgc ctgtcagtag tggacattgt aatccagtcg gcttggtctt gcagcattcc 120
cgctcccttc cctccatagc cagcgtccaa accccagggt agccatggcc gggtaaagca 180
agggccattt agattaggaa ggtttttaag atccgcaatg tggagcagca gccactgcac 240
aggaggaggt gacaaacat ttccaacagc aacacagcca ctaaaacaca aaaaggggga 300
ttggggcgaa agtgagagcc agcagcaaaa actacatttt gcaacttggt ggtgtggatc 360
tattggctga tctatgcctt tcaactagaa aattctaagt attggcaagt cacgttggtt 420
tcagggtccag agtagtttct ttctgtctgc tttaaatggr aacagactca taccacactt 480
acaattaagg tcaagcccag aaagtgataa gtgcaggagg gaaaagtgca agtccattat 540
gtaatagtga cagcaaagg accaggggag aggcattgoc ttctctgccc acagtctttc 600
cgtgtgattg tctttgaatc tgaatcagcc agtctcagat gccccaaagt ttcggttcc 660
atgagccccg ggcatgatct gatccccag acatgtggag gggcagcctg tgcctgcctt 720
tgtgtcagaa aaaggaaacc acagtgaacc tgagagagac ggcgattttc gggctgagaa 780
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tccagcaaat tgctagtcag ggtgaattgt gaaattgggt gaagagctta sgattcta 900
ctcatgtttt ttccttttca cattttttaa agaacaatga caaacaccca cttatttttc 960
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atttcttccc ccaaagccgg attcttaatt ctctgcaaca ctttgaggac atttatgatt 1560
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ttcctaatta tcgctagggc caagtgaggg tttgtaaagc ttacartaa tcattctgga 2520
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tcttagaaga tagcatggga ggtgaggatt ccaaaaacat tttattttta aaatatcctg 2640
```



```
tgtaacactt ggctcttggg acctgtgggt tagcatcaag ttctcccag ggtagaattc 2700
aatcagagct ccagtttgca tttggatgtg taaattacag taatcccatt tcccaaacct 2760
aaaatctggt ttctcatca gactctgagt aactggttgc tgtgtcataa ctccatagat 2820
gcaggaggct cagggtgatct gtttgaggag agcacccctag gcagcctgca ggaataaca 2880
tactggccgt tctgacctgt tgccagcaga tacacaggac atggatgaaa ttcccgtttc 2940
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atactgtgaa aatgttttac attccatttc atttgtgtg tttttttaac tgcattttac 3060
cagatgtttt gatgttatcg cttatgttaa tagtaattcc cgtacgtgtt ctttttattt 3120
tcatgctttt tcagccatgt atcaatattc acttgactaa aatcactcaa ttaatcaawa 3180
aaaaaaaaaa aaaccncggg ggggggcccgaacc 3215
```

<210> 52

<211> 626

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (571)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (572)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (573)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (618)

<223> n equals a,t,g, or c

<400> 52

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cagtttgtgt attgcccga gaaggcccag ctcaacattg gcaatgtgct cctgtgggc 60
accatgcctg aggttacaat cgtgtgctgc ctggaggaga agcctggaga ccgtggcaag 120
ctggcccggg catcaggga ctatgccacc gttatctccc acaaccctga gaccaagaag 180
acccgtgtga agctgcctc cggtccaag aaggttatct cctcagccaa cagagctgtg 240
gttgggtgtg tggtggagg tggccgaatt gacaaacca tcttgaaggc tggccgggcg 300
taccacaaat ataaggcaaa gaggaactgc tggccacgag tacggggtgt ggccatgaat 360
cctgtggagc atccttttgg aggtggcaac caccagcaca tcggcaagcc ctccaccatc 420
cgcagagatg cccctgtggt ccgcaaagtg ggtctcattg ctgcccggcc gactggacgt 480
ctccggggaa ccaagactgt gcaggagaaa gagaactagt gctgagggcc tcaataaagt 540
ttgtgtttat gccaaaaaaa aaaaaaaaaa nnnngggggc cgctttarag rwtccctcaa 600
ggggccaaact tacccttnca tgcaaa 626
```

<210> 53

<211> 920

<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (617)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (621)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (725)
<223> n equals a,t,g, or c

<400> 53
atgagggctc ggctacagca agaagtagag gagcagctca aaaagaaatg tttcactctg 60
ctctgctact atgatcccaa ttcagatgct gacagtgaag ccgtgaaggc agcaaagggtg 120
tggaactcag cagagtcctg gtgggtgagc agcagcagtg ccasgatgcc aagagccagc 180
agaaggagca gatgttgctg ctggagaaka agagtgtctg ttactccagc gtgcttctcc 240
gctgcctcac tttgtctgag aggcttcttc aagaacaccg gctgaagact caatccgagc 300
tagaccgcat caatgcccag tacctggaag tcaagtgcgg tgetatgatc ctttaagctga 360
ggatggagga gctaaagatt ttgtccgaca cttacactgt tgagaaagtg gaagttcatc 420
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caagacaggt cctgaactcc tatgaggtcc ttggggagga gtttgacagg ctggtgaaag 540
agtacaccgt actcaagcag gcaacagaga acaagcggtg ggccctccag gagttcagca 600
aggtctaccg ttgagcntcg ncagggccag gagacatggc ttctgcatag ctgctgcctc 660
ctaactcttc tctagtggg accaccttca cctggggctg ccttcagtag aagggagtgt 720
ggaaanattt acgcttgaaa cactgcagtc atttaggcac tctcctgggt tctctttatt 780
ttttatgact gggcctcttc tggaaaatct agcaaggaga tttatataat ttttatgcat 840
agctgtgtgt cagtgtcagc cctgtattgt atttgattat ctcctgaata aagttatgat 900
attawaaaaa aaaaaaaaaa 920

<210> 54
<211> 1090
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1024)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1034)
<223> n equals a,t,g, or c

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<400> 54
gagtaaccca gaaatgatgt tgcatttttt gctttacctg ataattgaaa ctttcaacaa 60
tctctggagt gactttttct cctcgaattg aaacaagtct atggcaaaaag aagctgcatt 120
tttttcacaa aagggaagat ggtaacaatg gtcacttcaa acttttgggc taaattatat 180
gtacacagaa atgttcaaaa tcatagtttt aatgtgtttt gaaaaggcca cacaattata 240
ctttatcttt tcttaataat cctgcaaatc tctgccctgg aatccgaaat ctgaaaatgt 300
actggcttga acaaaatttg ttttgtgtgt tagagttata aatcattaat ctttatttcg 360
gggtgtttac gtttatgcca gttcctttat atttaaattt cttgttttat atattttgaa 420
tgtctttata gatttcttta aatttcctta tagaaccatt aatagaaaaat cattacattt 480
aaaatatacc ttacagcaaa agcatccaaa taagtatagg gtttatgtcc ttatttttct 540
ttcagctgaa tacgaatgaa cacagtgggt gaatttctga agggaagtga tgaaattata 600
tttatttcag tgggcacttt tccattttac cactgtacca ttatttggtt cctggagtta 660
tacactaatt ttcagtatat tactgttaaa ttaccaacac aaggcaattt atttgaaaga 720
ttccgtttat cctgccattg ctttgaaaag cagcaggaaa cgaaatcctt tgacttgat 780
cagctctctg agagcatctt tgttttctt tgtcctttgt ttcctacctt ttgaatcaga 840
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aattgcatga agtggattga tcatgagcaa atgatgtgct tatttctccc tcaactgtga 960
atatctttga acttgctgtt ttcaatatgg gcagcacaaa ggtgagagat acatattaat 1020
agtngtatgt attnctctta tacattagat acctatattt aaatgaaagg gccaatgtgt 1080
aaacatatac                                     1090

```

```

<210> 55
<211> 1464
<212> DNA
<213> Homo sapiens

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```

<220>
<221> misc feature
<222> (766)
<223> n equals a,t,g, or c

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<400> 55
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gacgtctctca gctctcggtg cacggcccag ctcccttcaa aatgtctact gttcacgaaa 120
tcctgtgcaa gctcagcttg gagggatgac actctacacc cccaagtga tatgggtctg 180
tcaaagccta tactaacttt gatgctgagc gggatgcttt gaacattgaa acagccatca 240
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tgaaagtcagc cttatctggc cacctggaga cggtgatttt gggcctattg aagacacctg 420
ctcagtatga cgcttctgag ctaaaagctt ccatgaaggg gctgggaacc gacgaggact 480
ctctcattga gatcatctgc tccagaacca accaggagct gcaggaaatt aacagagtct 540
acaaggaaat gtacaagact gatctggaga aggacattat ttcggacaca tctggtgact 600
tccgcaagct gatggttgcc ctggcaagg gtagaagagc agaggatggc tctgtcattg 660
attatgaact gattgaccaa gatgctcggg atctctatga cgctggagtg aagaggaaaag 720
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ggttaaaagg aacctgaaa atgctttcct gaacctggtt cagtgcattc agaacaagcc 900
cctgtatttt gctgatcggc tgtatgactc catgaagggc aaggggacgc gagataaggt 960
cctgatcaga atcatggtct ccgcagtg agtggacatg ttgaaaatta ggtctgaatt 1020
caagagaaaag tacggcaagt ccctgtacta ttatatccag caagacacta agggcgacta 1080
ccagaaagcg ctgctgtacc tgtgtgtgtg agatgactga agcccgacac ggcttgagcg 1140

```

```
tccagaaatg gtgctcacca tgcttcacgc taacaggtct agaaaaccag ctgcggaata 1200
acagtccccg tggccatccc tgtgagggtg acgttagcat tacccccaac ctcatcttag 1260
ttgcctaagc attgcctggc ctctctgtct agtctctcct gtaagccaaa gaaatgaaca 1320
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cataaacaga tgaataaaact gaatttgtac tttaraaaaa aaaaaaaaaa aactyrgggg 1440
ggggcccgka cccattggcc ttag                                     1464
```

<210> 56

<211> 985

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (647)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (875)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (962)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (973)

<223> n equals a,t,g, or c

<400> 56

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agaagttgct agtgttcaat gcagctgggg tgaaacccca ggggcaaggt ggctggcttt 60
gatctggacg ggacgctcat caccacacgc tctgggaagg tctttccac tggccccagt 120
gactggagga tcttgtaacc agagattccc cgtaagctcc gagagctgga agccgagggc 180
tacaagctgg tgatcttcac caaccagatg agcatcgggc gcgggaagct gccagccgag 240
gagttcaagg ccaaggtgga ggctgtggtg gagaagctgg ggggtccctt ccaggtgctg 300
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gagcaggcca acgacggcac gccatatcc atcggggaca gcatctttgt gggagacgca 420
gccggacgcc cgcccaactg ggccccgggg cggaagaaga aagacttctc ctgcgccgat 480
cgctctgttg cctcaacct tggcctgccc ttgccacgc ctgaggagtt ctttctcaag 540
tggccagcag ccggcttcga gctcccagcc ttgatccga ggactgtctc ccgctcaggg 600
cctctctgcc tccccagtc cagggccctc ctgagcgcca cccggangtg gttgtcgag 660
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atgtccacgt gaacagggac acgctaggct cctggcagcg ctgtgtgacc acgtgtgara 780
cagccctgaa gcaagggaac cgggtcgcca tcgacaacac aaaccagac gccgcgagcc 840
gcgccaggta cgtccartgt gcccgagcgg cgggngtacc cctgccgctg ctctctcttc 900
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cnccccgggg atngcacccc ctgga                                     985
```

<210> 57
<211> 1246
<212> DNA
<213> Homo sapiens

<400> 57
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aaggccgtgg tgcagcgcgt caccgcccgc agcgtcacag ttggaggaga gcagattagt 120
gccattggaa ggggcatatg tgtgttgctg ggtatttccc tggaggatag gcagaaggaa 180
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<210> 58
<211> 1966
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1926)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1942)
<223> n equals a,t,g, or c

<400> 58
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tgaaccttca caatttggtt aaatccaaga acctttgttt aaacaaatcg ccaagtgtgt 180
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tcgtcagcgt gagaaaaaga aagaaaagga gcgtgaagaa ttgtggaaaa aattggagga 480
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acaacaacat tactaacctg tggagtcaca cgtttatgta gtagaagatg gagcaacagt 600
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caaagggtgca tcgtgaccaa attgttttaa aaaaaaaac aaaaaaaca aaatctaggg 1860
ctgtattttt tatatatata tatatatata tatatatata tatatatatg 1920
cttatnggac tctctgcttt gntattttaa taaaaaatct tacatc 1966

```

<210> 59

<211> 1611

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<400> 59

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aaggtagagt caattatgaa gaggacagct ttggtagcca atacctcaa tatgcctgtt 120
gctgctagag aagccyctat ttatactgga atcacactgt cagagtactt ccgtgacatg 180
ggctatcatg tcagtatgat ggctgactct acctctagat gggctgaggc cttagagaaa 240
tctctggtcg tttagctgaa atgcctgcag atagtggata tccagcctat cttggtgccc 300
gtctggcctc gttttatgaa cgagcaggca gggtgaaatg tcttggaat cctgaaagag 360
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ttacatctgc cactcttgg atcgttcagg tgttctgggg cttagataag aaactagctc 480
aacgtaagca ttccctctgt gtcaattggc tcatcagcta cagcaagtat atgctgacct 540
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aaattctgca ggaagaagaa gacctggcag aaattgtaca gcttggtggga aaggcttctt 660
tggcagaaac agataaaatc actctggagg tagcaaaact tatcaaagat gatttcctac 720
aacaataatg atatactcct tatgacaggt tctgcccatt ctacaagaca gtagggatgc 780

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```

tgtccaacat gattgcattt tatgatatgg ctcgtagagt gtttgaaacc actgccaga 840
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tttctattgt ggtaagctca ttggcagctt agcattttgc aaaggaattg ctttgcagga 1500
aatatttaat tttcaaaaac ataattgatta atgttccaat tatgcatcac ttccccagk 1560
ataaaycagg aatgkttgtg agaaaccatt gggaactata ctctttttta a 1611

```

<210> 60

<211> 1849

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (100)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (977)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1846)

<223> n equals a,t,g, or c

<400> 60

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agacctcagt cacctattac cggttggagg aggtggcaaa gcgcaactcc ttgaaggaaac 180
tgtggcttgt gatccatggg cgagtctacg atgtcaccgg ctctctcaac gagcaccctg 240
gaggagaaga ggttctgctg gaacaagctg gtgtagatgc aagtgaagac tttgaagatg 300
taggacactc ttctgatgcc agagaaatgc taaagcagta ctacattggg gatatccatc 360
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gctactacac atcggaaaagc aaatcctcct gaggaggcct tgctgaagtt agaaagtgc 540
tcacttttgg ggcgaaaact agagacttgc ttgggggctg cagaagtgcc ctctcctcga 600
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ccgtgttgaa caattgccgg tgtttcctct cttcactggg ttccatgagt acccttata 780
ttcacactt tctgttcata agttatagtg acattgctct ttggtaaaaa tgcctgcttt 840
ccaatacttt gattgcatat tagacattct taacagggcg gcagtctagt gttgaaagtt 900

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ttatttttcc atttttcttt taagtaaatt ttttttaaaa aattctgatt tagggctagg 960
tgtgtgtggct caggccngta atcckggcac ttkgggrggc caaggtggga agatcgsttg 1020
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaggngnga 1849
```

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<210> 61
<211> 233
<212> DNA
<213> Homo sapiens
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<400> 61
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tattattccc ttgactcac taattacact gctggaatat aaagaaatga tcctaaatat 180
atatgtagtt ttatggctct aaatatgtat aaagctttat gatcactcgt gcc 233
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<210> 62
<211> 2333
<212> DNA
<213> Homo sapiens
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<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (7)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (14)
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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2327)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2331)

<223> n equals a,t,g, or c

<400> 62

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ggtgcaatcc agtttgtagc tcagtatcag cattcaagtg ggcagagacg catccgagtg 180
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attatgattc agcctatcct gtatgcgtat tcttttagtg gaccaccaga gccggttctt 600
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aaatgccaat aaaatataact tttcactgtt aaaaaaaaa aataaanacc nta 2333

<210> 63

<211> 1470

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1410)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1414)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1419)

<223> n equals a,t,g, or c

<400> 63

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ccttctacaa tggctggatc ctcttcctgg ctgtgctcgc catccctgtg tgtgcoctgc 120
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gctggctggc aggagtcatc ttcctcgacc ggaagcgacc gggggatgcc atcagtgtca 420
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gttcagttct camatttytg ggtttytggt 1470

<210> 64

<211> 939

<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c

<400> 64
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cgtggaagcc gaagccgcac ctcccgcatg gccctccgg ccagccgggc ccctcagatg 180
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cagggaaccc agccagcaca gcagcagcag ccttgccctct atgagatcaa acagtctctg 480
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gaagtggggg tgcctact ctgtagaatc tgggactggg caaatgttg tgtggcctcc 780
ttaaactagc tggtatgtta tgattttatt cttgtgagt taattagaat aaagtcattt 840
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<210> 65
<211> 2068
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (308)
<223> n equals a,t,g, or c

<400> 65
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acaagccctg aacgagcacc tcagcacgcg tagtatgtcc aggggtactc actgtcccag 180
gcagacgtgg acgcggtcag gcagctctcg gccccgccg ctgaccccca gctcttccac 240

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gtggctcggg ggttcaggca catagaagcg ctcctgggta rccctgtggg caaaggccag 300
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tggaagccas catgcagact ccacctttac aacagcctca ccaggaacaa ggaagtgttc 420
atacctcaag atgggaaaaa ggtgacgtgg tattgtctgt ggccaaccgt ctatgacgca 480
tctcacatgg ggcacgccag gtcctacatc tcttttgata tcttgagaag agtgttgaag 540
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<210> 66

<211> 1391

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

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<222> (16)

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<222> (20)

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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1358)
<223> n equals a,t,g, or c

<400> 66
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<210> 67
<211> 659
<212> DNA
<213> Homo sapiens

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<222> (139)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (475)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (585)
<223> n equals a,t,g, or c

<400> 67
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<210> 68
<211> 2981
<212> DNA
<213> Homo sapiens

<220>
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<222> (2858)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2948)
<223> n equals a,t,g, or c

<400> 68
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<210> 69

<211> 603

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature
<222> (584)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (590)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (595)
<223> n equals a,t,g, or c

<400> 69
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agc 603

<210> 70
<211> 1101
<212> DNA
<213> Homo sapiens

<220>
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<222> (195)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1080)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1081)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1090)
<223> n equals a,t,g, or c

<400> 70

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<210> 71

<211> 714

<212> DNA

<213> Homo sapiens

<400> 71

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<210> 72

<211> 2890

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (555)

<223> n equals a,t,g, or c

<220>
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<222> (2853)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2882)
<223> n equals a,t,g, or c

<400> 72
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<210> 73

<211> 2488

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (446)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2382)

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<220>

<221> misc feature

<222> (2412)

<223> n equals a,t,g, or c

<400> 73

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<210> 74

<211> 711

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (696)

<223> n equals a,t,g, or c

<400> 74

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<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (362)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (889)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (894)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (897)
<223> n equals a,t,g, or c

<400> 75
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<210> 76
<211> 271
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (36)
<223> n equals a,t,g, or c

<400> 76
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caagtgtggg tctcactctt ctagtctctg a 271

<210> 77
<211> 673
<212> DNA
<213> Homo sapiens

<400> 77
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<210> 78
<211> 367
<212> DNA
<213> Homo sapiens

<400> 78
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367

<210> 79

<211> 1344

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1319)

<223> n equals a,t,g, or c

<400> 79

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<210> 80

<211> 3748

<212> DNA

<213> Homo sapiens

<400> 80

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<210> 81
<211> 1891
<212> DNA
<213> Homo sapiens

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<220>
<221> misc feature
<222> (1869)
<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (1879)
<223> n equals a,t,g, or c

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tttccgttna agtccccent taggaccccc g 1891

<210> 82

<211> 1954

<212> DNA

<213> Homo sapiens

<400> 82

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atttatgggt attttttttc gaagtattta agcatattcc ttttccacga accctttctg 180
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<210> 83

<211> 936

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> {930}

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> {936}

<223> n equals a,t,g, or c

<400> 83

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cagaggaccg gaacacttgc ctttgagcgg gtctacactg ccaaccagaa ctgtgtagat 240
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<210> 84

<211> 1513

<212> DNA

<213> Homo sapiens

<400> 84

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<210> 85

<211> 1298

<212> DNA

<213> Homo sapiens

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<221> misc feature

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<400> 85

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<210> 86

<211> 2009

<212> DNA

<213> Homo sapiens

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<222> (1955)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1959)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2008)
<223> n equals a,t,g, or c

<400> 86
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<210> 87
<211> 534
<212> DNA
<213> Homo sapiens

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<222> (466)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (477)
<223> n equals a,t,g, or c

<220>
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<222> (526)
<223> n equals a,t,g, or c

<400> 87
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<210> 88
<211> 4302
<212> DNA
<213> Homo sapiens

<220>
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<222> (1015)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (4270)
<223> n equals a,t,g, or c

<220>
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<222> (4274)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (4296)
<223> n equals a,t,g, or c

<400> 88
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<210> 89

<211> 2782

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (82)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (743)

<223> n equals a,t,g, or c

<400> 89

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2782

```

<210> 90

<211> 1037

<212> DNA

<213> Homo sapiens

<400> 90

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aatgaaatta tatagattag atctcagtat ttaaactgtt cotcaatttt gtgaggctgt 180
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```

```

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```

<210> 91

<211> 1052

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (76)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (962)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (965)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1044)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1048)

<223> n equals a,t,g, or c

<400> 91

```

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gatgttctct ctccacagct gaaagatgaa aattctaagc tgagaagaaa gctgaatgag 180
gttcaragct tctytraagc wcawacagaa atggtgagga cgcttgagcg gaagttagaa 240
gcaaaaatga atcaaggagg aaagcgacta ccacgacctg gagtcggtgg ttcagcaggt 300

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ggagcagaac ctggagctga tgaccaaacg ggctgtaaag gcagaaaacc acgtcgtgaa 360
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agccctgcgg tgcggccagg gtgccagcct gaccgtggtg aagcagaacg ccgacgtggc 480
cctgcagaac ctccgggtgg tcatgaacag tgcaacaggc tccatcaagc aactggtttc 540
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```

<210> 92

<211> 1234

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1115)

<223> n equals a,t,g, or c

<400> 92

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agttcgaat atggcaactt tgaaagatat caccaggaga ctaaagtcca tcaaaaacat 180
ccagaaaatt accaagtcta tgaaaatggt agcggcagca aaatatgcc gagctgagag 240
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tatcaagggg cctgaagaca agaagaaaca cctccttatt ggtgtgtcct cagatcgagg 360
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ttaaataaaa atcattgttt ttcttatata taagnacaat agatatagtt ttgaaatga 1140
gatgatacta aaacatttaa aaatattaat atgctactat taaaattttt tagtagaaga 1200
caaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa 1234

```

<210> 93

<211> 1571

<212> DNA

<213> Homo sapiens

<220>
<221> misc feature
<222> (1497)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1516)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1530)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1546)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1571)
<223> n equals a,t,g, or c

<400> 93
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ggaagatccc aaacacaaaa gatggaagggt gaaaataaag actgcgtgac cgggaagaaa 1440

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cctaaaaaaa aaaaanaaaa aaaaaaaacn cggggggggg cccggnaccc aattcccccc 1560
aaaggggggg n 1571

<210> 94
<211> 1872
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (51)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1271)
<223> n equals a,t,g, or c

<400> 94
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gacctattca tgcattcttca ccagcagctg gagcatctcc acccttggtt tttctgggtg 180
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cgagactagc gg                                     1872

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<210> 95

<211> 1516

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1505)

<223> n equals a,t,g, or c

<400> 95

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gccgaatctc cctaatecct gtgacctgtg tcacctctgc atcgcgagga gggggataag 180
tggggagaag tctggtgtca gatgggatgg cgcgggaaga ggggtgccaca gcggggacgg 240
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```

<210> 96

<211> 1770
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (485)
<223> n equals a,t,g, or c

<400> 96
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gtcggacatt gaagcggtag ccatgccggc agwgtgaaca gtccttcac accccaaca 120
gcctgcgcaa acacatccgc aacaaccatg acacagtaaa gaagttctac acctgcgggt 180
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<210> 97
<211> 938
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (183)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (293)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (360)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (938)
<223> n equals a,t,g, or c

<400> 97
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gccaggccta ggagaagaca ggtgcagctc ttgcagctct gcgggtgtgc ggccaaaggc 180
aangcccacg ggctggatgt cacttccccg actgtctctt ggttggttg tccttgtgca 240
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aaggggggaa ttgggggtcca ccatagtctt ctgctctggt cctccacggg tgggaccagn 360
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ctggcagaag acactcacca ggttatctgt gaagagactc tgggatccca tcacctcaaa 480
gccagagggt ccccaagtca ccgctgagag cacttgagcc tcaaggatgt aagcctgacc 540
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tccactcttc ttoggaggca actgagaaca cataaagcaa gcagctacct agcatccccc 660
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cccaaggcg ggctggctga tggcagcatg gtgggctggc ctgggtgtgg agtgaaagag 840
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ttcctattaa aggaccttct gaagggcaaa aaaaaaan 938

<210> 98
<211> 311
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (297)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (309)
<223> n equals a,t,g, or c

<400> 98
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ccctgcccta cgcccaggca tgtgccatcc tcccgccacc cagaggtttg tgggctgagg 120


```

accaaactctc accgctgtct ctttcgtccc cagctccagg ccatgccgcg agccggagggt 180
gtgctctacc agccctcggg accagccagy ttccccagca ccttcagccc ygccggctcg 240
gtggagggct ccccaatgca cggcgtgtac atgagccagc cggtccttgc cgtgggnccc 300
taccacagna t 311

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<210> 99
<211> 620
<212> DNA
<213> Homo sapiens

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<220>
<221> misc feature
<222> (368)
<223> n equals a,t,g, or c

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```

<220>
<221> misc feature
<222> (570)
<223> n equals a,t,g, or c

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<400> 99
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ccggaggagc tggcagccct ctttgcgccc tacggcacgg tcatgagctg cgccgtcatg 180
aaacagttcg ctttcgtgca catgcgcgag aacgggggcg cgtgcgcgcg catcgaagcc 240
ctgcacggcc acgagctgcg gccggggcg gcgctcgtgg tggagatgtc gcgccaagg 300
cctcttaata cttggaagat tttcgtgggc aatgtgtcgg ctgcatgcac gagccaggaa 360
ctgcgcancct cttcgagcgc cgcggacgcg tcatcgagtg tgacgtggtg aaagactacg 420
cgtttgttca matggagaag gaagcagatg ccaaagccgc aatcgcgag ttcaacggca 480
aagaagtga gggcaagcgc atcaacgtgg aatctycacc aagggtcaga agaaggggcc 540
tggcctggct gtccagtctt gggacaagan caagaaacca agggctgggg ataggccttc 600
cctggaatgg tggctttctg 620

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<210> 100
<211> 2511
<212> DNA
<213> Homo sapiens

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```

<220>
<221> misc feature
<222> (12)
<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (28)
<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (44)

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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2456)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2488)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2511)

<223> n equals a,t,g, or c

<400> 100

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gccagattcg gccagcaag cggaacctct gggaaaagca atctgtggat aaggtcactt 120
ccccactaa ggttgagac agtccagaa agaaccaag ctcaagacgc aggacgagct 180
cagttgtaga gggctaattc gctctgttt gtatttatgt tgatttacta aattgggttc 240
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tcacagtcta gagatgttca tggtaaaagt actgcctttg cacaggagcc tgtttctaaa 360
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<210> 101

<211> 2981

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (293)

<223> n equals a,t,g, or c

<400> 101

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ttcccgtctt cgcttagggg gcacaggcgc aggcacgggc ccggccactc caagccttcg 180
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gatgtttaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa g 2981

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<210> 102

<211> 2804

<212> DNA

<213> Homo sapiens

<400> 102

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<210> 103

<211> 722

<212> DNA

<213> Homo sapiens

<400> 103

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aa 722

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<210> 104

<211> 1636

<212> DNA

<213> Homo sapiens

<400> 104

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gttctgtca tagtttgtgt ctcccaggca ggccatggtg ggggcctcgc agggggcatt 1440
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gcctgggaaa ggagtgtgtt ctgctgccc gttacagtgg agcgttccgt gtccataaaa 1560
cgttttctaa ctgggraaaa aaaaaaaaa aaaaaaaaa aaaaaaaaa aaaaaaaaa 1620
aaaaaggggg gggggg

```

<210> 105

<211> 1561

<212> DNA

<213> Homo sapiens

<400> 105

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caggcgggaa catggccacc gagaccaaa tgtggtgcca ggtcctccca agccagcaaa 60
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gtatgacctc agccggccta ctgcctctca gctggaggac gagctgcagg tggggaatgt 180
tccccctaaa aaagcaaaag agtctaaaa gcatgaaaag cttgagaaac cagagaagga 240
gaagaaaaaa aagatgaaga atgagaacgc agacaagtta cttaagagtg aaaagcaaat 300
gaagaagtct gagaaaaaga gcaagcaaga gaaagagaag agcaagaaga aaaaaggagg 360
taaaacagaa caggatggct atcagaaacc caccaacaaa cacttcacgc agagtcccaa 420
gaagtcagtg gccgacctgc tggggctcct tgaaggcaaa cgaagactcc ttctgatcac 480
tgctcccaag gctgagaaca atatgtatgt gcacaacgtg atgaatatct ggaaagtctc 540
tgcaagatgg ctaccaggaa aatctctgtg atcaccatct tcggccctgt caacaacagc 600
accatgaaaa tcgaccactt tcagctagat aatgagaagc ccatgcgagt ggtggatgat 660
gaagacttgg tagaccagcg tctcatcagc gagctgagga aagagtacgg aatgacctac 720
aatgacttct tcatggtgct aacagatgtg gatctgagag tcaagcaata ctatgaggta 780
caataacaaa taagatctgt gtttgatctg atcgatactt tccagtccc aatcaaatga 840
atggagaagc agaagaagga gggcattgtt tgcaaaaggg acaaaaagca gtccctggag 900
aacttctat ccaggctccg gtggaggagg aggttgctgg tgatctctgc tccctaacgat 960
gaagactggg cctattcaca gcagctctct gccctcagtg gtcaggcgtg caattttggt 1020

```

```

ctgcgccaca taaccattct gaagctttta ggcgttggag aggaagttgg gggagtgtta 1080
gaactgttcc caattaatgg gagctctgtt gttgagcgag aagacgtacc agcccatttg 1140
gtgaaagaca ttcgtaacta ttttcaagt agcccgaggt acttctccat gcttctagtc 1200
ggaaaaagacg gaaatgtcaa atcctgggtat ccttcccca tggtggtccat ggtgattgtg 1260
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tactgagcag aaatatgtaa ccttagactc agccagtttc ctctgcagct gctaaaacta 1500
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1561

```

<210> 106

<211> 486

<212> DNA

<213> Homo sapiens

<400> 106

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catttgccaa aaatgagtct aagtgcattt actctcttcc tggcattgat tgggtgtacc 120
agtggccagt actatgatta tgattttccc ctatcaattt atgggcaatc atcaccaaac 180
tgtgcaccag aatgtaactg ccctgaaagc taccacaagt ccatgtactg tgatgagctg 240
aaattgaaaa gtgtaccaat ggtgcctcct ggaatcaagt atctttacct taggaataac 300
cagattgacc atattgatga aaaggccttt gagaatgtaa ctgatctgca gtggctcatt 360
ctagatcaca accttctaga aaactccaag ataaaaggga gagttttctc taaattgaaa 420
caactgaaga agctgcatat aaaccacaac aacctgacag agtctgtggg cccacttccc 480
aaatct
486

```

<210> 107

<211> 800

<212> DNA

<213> Homo sapiens

<400> 107

```

cttgtatctg atcgtttctaa aaaagagttg tccccggttt taaccagtga agttcatagt 60
gttcgtgcag gacggcatct tgctaccaa ttgaatattt tagtacagca acattttgac 120
ttggcttcaa ctactattac aaatatccca atgaagggtg ttgcacatca ggtggcggca 180
gtcgagaagg ctcgtttaaa gaaacaataa cattaaagtg gtgtacacca aggacaaata 240
acattgaatt acactattgt actggagctt atcggatttc acctgtatag gtaaatagta 300
gaccttcctc ctgccttact aattttcttc taaatgggtc ttctgtttta ttggaacaac 360
cacgaaagtc aggttctaaa gtcattagtc atatgcttag tagccatgga ggagagattt 420
ttttgcacgt ccttagcagt tctcgatcca ttctagaagr tccaccttca attagtgaag 480
gatgtggagg aagrgttaca gactaccgga ttacagattt tgggtgaattt atgagggaaa 540
acagattaac tccttttcta gacccagat ataaaatoga tgggaagtctt gaggtccctt 600
tggaacgagc aaaagatcag ttagaaaaac ataccogtta ctggcctatg gatcatttca 660
caaaccacca tttttaacac gcaagcggtg gttccattag ccagtgttat tgtggaaaga 720
tcyctggaca gaggaagatg tggttwaaac ggtccaaaaa acatwttcca acttggttgg 780
ataaggggaa ggaaaaaagg
800

```

<210> 108

<211> 1058

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (895)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1019)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1054)

<223> n equals a,t,g, or c

<400> 108

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ggcagcagcg tgactggcgc cgaaatggga gaaagcagcg agtgagaggg gaaggggcgc 60
caggcgagca cccgggagcc agcgggacct gggcaggggc gcccggagca ggccgcatgg 120
cgggccccgc gcggggatcc ggctggaaga gagcgtacac ggctcgcacg agtccggggc 180
cgatgtacca ggtgagcggc cagccccctc ttgctgcgac gcgcccttat ggagccccc 240
gcgcamcccg ggcccagccc agaccytaty ccttccttcc tgggctggar gtaktaacag 300
gatccactca cctgcggag gcagcaccag aggagggtc cctggaggag gcggcaacc 360
ccatgcccc aaggcaatggc cctggcatcc cccagggcct ggacagcact gacctcgacg 420
tccccacaga agctgtgaca tgccagcctc aggggaaccc ttgggctgca cccacttct 480
gccgaatgac tctggccacc cctcagagct gggcggcacc agacgggcgg ggaatggtgc 540
cctgggtggc cccaaggccc accggaagtt gcagacacac ccattctctg ccagccaggg 600
cagcaagaag agtaagagca gcagcaaatc caccacctcc cagatcccc tccaggcaca 660
ggaagactgc tgtgtccact gcacctctgt ctgctgttc tgcgagttcc tgacgctgtg 720
caacatcgtc ctggactgcg ccacctgtgg ctctctcagc tcggaggact cgtgcctctg 780
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cggcatcctg gatcctgct gcgagtccgc ggactgcctg gaaatctgca tggantgctg 900
tgggctctgc ttctcctcct gagcctctgt cgggggctaa gccagcctgg cggccctgca 960
gattccagca gggccctct gagtggggcc agggccagga ctgtcacaca aggcttgana 1020
aagcccctct ccctggtcct ctctaccca ccctgtc 1058
```

<210> 109

<211> 1076

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (780)

<223> n equals a,t,g, or c

<400> 109

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caggaggaag caggaagaaa caggaggagg aacctgagac agagccgctg aagtccttgc 60
tggaagcaga tgggattaaa tgagcgacga gactgggaga gtgccagaga gagacaccaa 120
gaggatgcag gtctgtctgc tatcagctat gccgctgccc gttgcgctgc agaccgctt 180
```



```
ggccaagaga ggcatcctca aacatctgga gcctgaacca gaggaagaga tcattgccga 240
ggactatgac gatgatcctg tggactacga ggccaccagg ttggaggggc taccaccaag 300
ctgggtacaag ttgttcgacc cttcctgcgg gctcccttac tactggaatg cagacacaga 360
ccttgatccc tggctctccc cacatgaccc caactccgtg gtaccaaata cggccaagaa 420
gctcagaagc agtaatgcag atgctgaaga aaagttggac cggagccatg acaagtcgga 480
caggggccat gacaagtcgg accgcagcca tgagaaacta gacagggggc acgacaagtc 540
agaccggggc cagcacaagt ytgacaggga tcgagagcgt ggctatgaca aggtagacag 600
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gaaggcagta agccgaaagg atgaagagtt agaccccatg gaccctagct catactcagn 780
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tgacaccaca gcagctgggc cctctttcca gcagcggcgg tatccatccc caggggctgt 900
gctccggggc aatgcagagg cctcccgaac caagcagcag gattgaagct tcggcctccc 960
tgccctggg ttaaaataaa agctttcttg tgatcctgcc caccaaaaaa aaaaaaaaaa 1020
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa waaaaaaatt ttgggggggg cccct 1076
```

<210> 110

<211> 1199

<212> DNA

<213> Homo sapiens

<400> 110

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gttggtggag ttctgcccgg atggaagctc cggccgcgga gtgatggtgg cctcagcgaa 60
gatgggccgg gcagggacca tggcgggtggc agcagagggtg gcaggggcgg ggcggtcggc 120
ggtagaggag gctgtggtcc tcaggggggct gtaggtggag gtatggctcg ggccagcagc 180
gggaacggga gcgaggaggc ctgggggggca cttcggggcgc cgcaacagca gcttcgagag 240
ctgtgcccag gagtgaacaa ccagccctac ctctgtgaga gtggtcactg ctgcggggag 300
actggctgct gcacctacta ctatgagctc tgggtggtct ggctgctctg gactgtcctc 360
atcctcttta gctgctgttg cgccttccgc caccgacgag ctaaaactcag gctgcaacaa 420
cagcagcggc agcgtgaaat caacttggtg gcctatcatg gggcatgcc a tggggctggg 480
cctttcccta ccggttcaact gcttgacctt cgcttcctca gcaccttcaa gccccagcc 540
tacgaggatg tggttcaccg ccagggcaca ccaccccccc cttatactgt ggccccaggc 600
cgccccctga ctgcttcag tgaacaaacc tgctgttcc cctcatccag ctgcccctgcc 660
cactttgaag gaacaaatgt ggaagggtgt tcctcccacc agagtgtccc cctcatcag 720
gaggggtgag ccggggcagg ggtgacccct gcctccacac cccctcctg ccgctatcgc 780
cgtttaactg gcgactccgg tattgagctc tgcccttgtc ctgcccggg tgagggtgag 840
ccagtcaagg aggtgagggt tagtgccacc ctgccagatc tggaggacta ctcccgtgt 900
gcactacccc cagagtctgt accgcagatc ttcccatgg ggctgtcttc cagtgaaggg 960
gacatcccat aagtagtttt gagagggtgg atgggttact tgcccaccag aaacagccct 1020
agtcccaact ccttgcttc ctttgcccc tccctgccta cctagaatct gcctgaaagg 1080
gctggagagg ggcagtattg ggggactgtg ctagctttac ccccgaggga catacacagg 1140
agcctttgat ctcattaaag agatgtgaac cagctaaaaa aaaaaaaaaa aaactcgag 1199
```

<210> 111

<211> 3630

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3606)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3608)

<223> n equals a,t,g, or c

<400> 111

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tgtggaccgc ggacgtcgct gggacagccc ctccccgctg ctccggcgcg gcacctggcc 120
cggccgctcc tcgctcgctc tcgcctccgc ctccctcggac tcggactcgg gtttatatcg 180
cgcctcactt catcccagtc ccgggcgagc agcgttggtt ttatgtcttt atttgacgaa 240
aacgacagaa gataccaaaa agttgcaatc aaagatctct tcatcttatt gataaagcca 300
ctaataagcc aaaatgtctg tcaatgtcaa ccgacgcgtg tcagaccagt tctatcgcta 360
caagatgccc cgtctgattg ccaagggtga gggcaaaggc aatggaatca agacagttat 420
agtcaacatg gttgacggtt caaaggcgct taatcggcct ccaacgtatc ccaccaaata 480
ttttggttgt gagctgggag cacagaccca gtttgatggt aagaatgacc gttacattgt 540
caatggatct catgaggcga ataagctgca agacatggtg gatggattca ttaaaaaatt 600
tgttctctgt cctgaatgtg agaactctga aacagatttg catgtcaatc caaagaagca 660
aacaataggt aattcttgta aagcctgtgg ctatcgaggc atgcttgaca cacatcataa 720
actctgcaca ttcatctca aaaacccacc tgagaatagt gacagtggta caggaaagaa 780
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tgagacacca ccaccaccac caccacaaaa tgaaattaat cctcctccac atacaatgga 900
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tgattcatct gacaaagaaa tcgttgctga agcagaaaga ctggatgtaa aagccatggg 1140
ccctcttggt ctaactgaag ttctttttaa tgagaagatt agagaacaga ttaagaaata 1200
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cttgaaggag atgtacgatg cagacctttt agaagaagag gtcacatca gctgggtcga 1380
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caacctagct taacagtata atgttgcaaa ttttctcca ttatcagcca gaagtgcac 1680
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tactgtgagt ggtctgttat taagccaat gagacatcta gggagtccat acacatcagt 1800
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caaaatgtta gacatactgt attttttcgt tcagtgtggc tttaattttc cctcttgca 2580
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```

gtttgttctg taatgccttt tacatttga cacaatagttt atscctttttt ttggtgtaag 2640
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gttcacaggt taccctaata gagtaattct tcactttgct ctattgaact gtcttaagga 3540
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```

<210> 112

<211> 1526

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1496)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1511)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1512)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1515)

<223> n equals a,t,g, or c

<400> 112

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tcttgaggct atcagatcgg tatggcattg gcgtccgggc ccgcaaggcg ggcgctagct 120
ggctccgggc agctcggcct tgggggcttc ggggccccga gacgcggggc gtatgagtgg 180
ggcgtgcgct ccacgcggaa gtcggagcct cctcccctgg atagggtgta cgagatccct 240
ggactggagc ccatcacctt tgcggggaag atgcacttcg tgccttggtt ggcgcgggcg 300
atctttccgc cctgggaccg cggctacaag gaccaaggt tctaccgctc gccccctctt 360

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```

cacgagcatc cgctgtacaa agaccaggcc tgctatatct ttcaccaccg ttgccgcctt 420
ctcgaggggtg taaagcaggc cctctggctc accaagacca agttaataga aggccttccc 480
gagaaaagtgc ttagccttgt tgatgatcca aggaaccaca tagagaacca agacgagtg 540
gttctgaaatg tgatctctca cgcccgctctc tggcagacca ctgaggaaat cccaagaga 600
gagacctact gcccggtcat cgtggacaac ctaatacagc tgtgtaaatc tcagattctc 660
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aaccgagagt ctcttctcct tcaagtccgt ggttctgggtg gagcccgact gacactaag 780
gatcctctgc ccaccatcgc ctccagagag gagattgaag ctactaagaa tcatgttcta 840
gagaccttct accccatata acccatcata gatcttcatg aatgcaatat ttatgatgtg 900
aaaaatgaca caggattcca ggaaggctat ccttaccctt atccccatac cctgtactta 960
ctggacaagg ccaattttacg accacaccgc cttcaaccag atcagctgcg ggccaagatg 1020
atcctgtttg cttttggcag tgccctggct caggcccggc tcctctatgg gaatgatgcc 1080
aagggtcttg agcagcccggt ggtggtgcag agcgtgggca cggtatggacg tgtcttccat 1140
ttcctagtgt ttcaactgaa taccacagac ctggactcta acgaggggtg caagaatttg 1200
gcctgggtgg actcagacca gctcctctat cagcattttt ggtgtctccc agtgatcaaa 1260
aagagagtgg ttgtggaacc tgttggccca gttggtttca agccagagac attcagaaaag 1320
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ccctcttgcc tctcttccac ggaagaggcc tgggccccgt ggagcctcag tgcccgtttg 1440
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ggccgctcaa nngncccaa gttagt 1526

```

```

<210> 113
<211> 585
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (422)
<223> n equals a,t,g, or c

```

```

<400> 113
tcgaccacg cgctccgcca cgcgtccgcc cacgcgtccg ggagcccggt gacaggatgt 60
tggtgttggg attaggagat ctgcacatcc cacaccgggt caacagtttg ccagctaaat 120
tcaaaaaact cctggtgcca ggaaaaattc agcacattct ctgcacagga aacctttgca 180
ccaaagagag ttatgactat ctcaagactc tggctggtga tgttcatatt gtgagaggag 240
acttcgatga gaatctgaat tatccagaac agaaagtgtg gactgttgga cagttcaaaa 300
ttggtctgat ccatggacat caagttattc catggggaga tatggccagc ttagccctgt 360
tgcagaggca atttgatgtg gacattotta tctygggaca cacacacaaa tttgaagcat 420
tngagcatga aaataaattc tacattaatc caggttctgc cactggggca tataatgcct 480
tggaacaaa cattattyca tcattgtgtt gatggatata caggcttcta cagtggkac 540
ctatgtgtaa tcagctaatt ggagatgaag tgaaagtaga acgga 585

```

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<210> 114
<211> 501
<212> DNA
<213> Homo sapiens

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<400> 114
gatgaaaaga aggtttttgc tcttcaaatt cttaagtaaa ctaaaaggca gagctggaaa 60
taaagcccggt attgtggact ccaagtaatg ctctttctgc tacaccatac tttgtggtgt 120

```

```

ctgctcccat gtgcttcttc gctaaggctg atcaaaaaag ttagtaggtt gcttcagcta 180
taagaatttg atggtcttcc ttagtcatca tagtctgcag caatcatttt tgttcatcat 240
tgggatgtct gttactcct gttgagtaaa tgtgatctat tcacccttgg ragctccttg 300
cacaccaaca gtattcttgg atagggacaa gtgttgtcta agtcagtgc gatttcttta 360
gcataataaa aggctccatg taggatgcta atacttgagt gaaatatgct tcataagcag 420
ccttgttttg acagagttgg tgtaaagtga ggttatgtct tggcctgagc gtcttcaaag 480
catgtgccac tttgtgcac t 501

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<210> 115

<211> 1965

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (338)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (343)

<223> n equals a,t,g, or c

<400> 115

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agagggcgga ctggcgga gaggcagcgc ccgaaccgag cgagaagagc ggagagagcct 60
tatccctga agccgggccc cgcgtccag mcttgccca aaggcaggag cagcagacaa 120
gagtgcagtg gtggctgccg ccgcaccagc ctcagtggca gatgacacac caccocccga 180
gcgtcggaac aagagcggtg tcatcagtga gccctcaac aagagcctgc gccgctcccg 240
cccgtctctc cactactctt cttttggcag cagtgggtgt agtgccggtg gcagcatgat 300
gggaggagag tctgctgaca aggcactgc ggctgcanc tgnctccctt gttggccaat 360
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agtggctgtg tggccagcct gctgagcaag gcagagcggg ccacggagct ggagcgcgag 480
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gagcatctcc cgtgatgag cgaggcggtg gctggcctgc ctgacatgga ggctgtggca 600
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ccaggcctct tcattatgac ccgggcagg gtgttccttg ccgagagcgc gctgcacatg 720
gcgggccttg ctgagtacc catgcaggga gagctggcct ctgccatcag ctccggcaag 780
aagaagcgga aacgctgcgg catgtgcgcg ccctgccggc ggcgcaccaa ctgcgagcag 840
tgcagcagtt gtaggaatcg aaagactggc catcagattt gcaaattcag aaaatgtgag 900
gaactcaaaa agaagccttc cgtgtctctg gagaagggtg tgcttccgac gggagccgcc 960
ttccggtggt ttcagtgcg gggcggaac ccaaagctgc cctctccgtg caatgtcact 1020
gctcgtgtgg tctccagcaa gggattcggg cgaagacaaa cggatgcacc cgtctttaga 1080
accaaaaata ttctctcaca gatttcattc ctgtttttat atatataatt tttgtgtcgt 1140
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cggaagaaca acaacaaaaa agaggtaaag acgaatctat aaagtaocga gacttccctg 1260
gcaaagaatg gacaatcagt ttccctcctg tgtcgatgtc gatgtgtct gtgcaggaga 1320
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agcactactg taatttagca cagtttaact ccaccctcat ttaaacttcc tttgattctt 1440
tccgaccatg aaatagtga tagtttgctt ggagaatcca ctacggttca taaagagaat 1500
gttgatggcg ccgtgtagaa gccgctctgt atccatccac gcgtgcagag ctgccagcag 1560
ggagctcaca gaaggggagg gaggcaccag ccagctgagc tgcacccaca gtcccagagc 1620

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```

tgggatcccc caccccaaca gtgatttttg aaaaaaaaaat gaaagtcttg ttcgtttatc 1680
cattgcgatac tggggagccc catctcgata ttccaatcc tggctacttt tcttagagaa 1740
aataagtcct ttttttctgg ccttgctaata ggcaacagaa gaaagggctt ctttgctgg 1800
tccccctgtg gtgggggtgg tccccagggg cccccctgcgc ctgggcccc ctscacggc 1860
cagcttcctg ctgatgaaca tgctgtttgt attgttttag gaaaccaggc tgttttgtga 1920
ataaacgaa tgcatgttg tgccacgaar maaaaaaaaa aaaaa 1965

```

<210> 116

<211> 1060

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (299)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1060)

<223> n equals a,t,g, or c

<400> 116

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gaaacacata cattggatat gggaagatgg cggtctgtgc ggtgtatgct ccaccagttg 60
gaggcttctc ttttgataac tgccgcagaa tgccgtcttg gaagccgatt ttgcaaagag 120
gggatacaag cttccaaagg yccggaaaac tggcacgacc atcgctgggg tggctctataa 180
ggatggcata gttcttgagg cagatacaag agcaactgaa gggatggttg ttgctgacaa 240
gaactgttca aaaatacact tcatactctc taatatttat tggtgtggtg ctgggacanc 300
tgcagacaca gacatgacaa cccagctcat ttcttccaac ctggagctcc actccctctc 360
cactggccgt cttcccagag ttgtgacagc caatcggatg ctgaagcaga tgcttttcag 420
gtatcaaggt tacattggtg cagccctagt tttaggggga gtagatgtta ctggacctca 480
cctctacagc atctatctc atggatcaac tgataagttg cttatgtca ccattgggttc 540
tggctccttg gcagcaatgg ctgtatttga agataagttt aggccagaca tggaggagga 600
ggaagccaag aatctggtga gcgaagccat cgcagctggc atcttcaacg acctgggctc 660
cggaagcaac attgacctct gcgtcatcag caagaacaag ctggattttc tccgcccata 720
cacagtgcct aacaagaagg ggaccaggct tggccgttac aggtgtgaga aagggaactac 780
tgcagtcctc actgagaaaa tcaactcctc ggagattgag gtgctggaag aaacagtcca 840
aacaatggac acttcttgaa tggcatcagt ggggtgctgg ccgcggttct ggaagggtgt 900
gagcattgag gccagtaag acactcatgt ggctagtgtt tgccgaatga aactcaactc 960
ataaaaaaac aaaaaccaaa ttgggcagct gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1020
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1060

```

<210> 117

<211> 709

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (174)

<223> n equals a,t,g, or c

<400> 117

```

aattcggcac gagaacatcc attctaaagg gctactgtcc caaatcctgt gtgtcctttt 60
gacttgctctg atcacccaat ggaagtggat acttgtaaag tctacaccac tgtacttggc 120
gttaaatctt gctgaattcg tggtaagctg ttaccatgtc tacattttgt agantgattt 180
tggctctgcag caaaattcga ttctacttct cataccctt tccttccact tgaaatgcaa 240
tttagacaga ggccctgtgg tgaaagtgc aatattaagt ttmcccttag aagatcccyt 300
cctcaaacct cagaaccctt agcagtgtta ccctwaaaca aaaatgagct cgagaaaaaa 360
gtagctcagt tacagagaag caaatcgagt tatttcccca cataaaaagt ttcccagat 420
tctaagaatt gcagtatcct gtaccctaaa atttttcaag gtgactcctg ttgtcgtctg 480
ttgataactt taataaaggc catttaagga cataagtgtt taaagactcc caaagtga 540
cttaaacatt ttccgggatta tcgattgcat atatcagttt atgctgtgtg ctgaattact 600
atgccatgtg ctattttagt gtttggggaa aatgaaaaat aaaatttgtt ctttagctta 660
ataaatatgt cttattttaa aaaaaaaaaa aaaaaactcg agactagct 709

```

<210> 118

<211> 2053

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (813)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2049)

<223> n equals a,t,g, or c

<400> 118

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ctccttggcg cctgtcccca cggcccccgc agcgtgacca cgatgctccc catacccccac 60
ccattcccgga tacaccttac ttactgtgtg ttggcccagc cagagtgagg aaggagtttg 120
gccacatttg agatggcggt actgagcaga catgccccca cgagtagcct gactccctgg 180
tgtgtcctct gaaggaagat cttggggacc cccccaccgg agcacacca rggatcatct 240
ttgcccgctc cctggggacc ccccaagaaa tgtggagtcc tcgggggccc tgcaactgatg 300
cggggagtggt gggaagtctg gcggttggar ggggtgggtgg ggggcagtgg gggctgggcg 360
gggggagttc tggggtagga agtggctccc ggagattttg gatggaaaag tcaggaggat 420
tgacagcaga cttgcagaat tacatagaga aattaggaac ccccaaattt catgtcaatt 480
gatctattcc cctcttttgt ttcttggggc attttctctt tttttttttt ttttgtttt 540
tttttaccct tccttagctt tatgcgctca gaaaccaaatt taaaccccc ccccatgtaa 600
caggggggca gtgacaaaag caagaacgca cgaagccagc ctggagacca ccacgtcctg 660
cccccccgca ttatcgccc tgattggatt ttgtttttca tctgtccctg ttgcttgggt 720
tgagttgagg gtggagcctc ctggggggca ctggccactg agcccccttg gagaagtcag 780
aggggagtggt agaaggccac tgtccggcct ggnttctggg gacagtggct ggtcccaga 840
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ggaaccttcc cctctccctc ggtgacatct tgcccggccc tcagcaccct gccttgtctc 1080
caggaggtcc gaagctctgt gggacctctt gggggcaagg tgggtgtgagg ccggggagta 1140
gggaggtcag gcgggtctga gcccacagag caggagagct gccaggtctg cccatcgacc 1200

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aggttgcttg ggccccggag cccacgggtc tggatgatgcc atagcagcca ccaccgcggc 1260
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ccagctcagc cccctgcac gcagcccgac tagcagctca gaggcctgag gcttctgggt 1380
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gagccaaatt gtcacaattg tggaaaccac attggcctga gatccaaaac gcttcgaggc 1560
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gtgcctgcgc cctcggtcca cttgcggccc gtgtttgact caactcagct cctttaacgc 1920
taatatttcc ggcaaaatcc catgcttggg ttttgtcttt aacctgttaa cgcttgcaat 1980
cccaataaag cattaaaagt catraaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2040
gggggggggnc cgg                                     2053

```

<210> 119

<211> 1824

<212> DNA

<213> Homo sapiens

<400> 119

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agttcctagc aagctgttca caagattgcc tgataagaat atggaagctg tatataaagt 60
caacatcttt agaaactcag gatgacgata acataagact gaaggaaaat acttttacca 120
tagaaaaatga aaagtgttaa aatagcattt gctgttactc tggagacagt gctagccggt 180
catgaaaact gggtaaatgc agttcactgg caacctgtgt ttacaaaga tgggtgtccta 240
cagcagccag tgagattatt atctgcttcc atggataaaa ccatgattct ctgggctcca 300
gatgaagagt caggagtttg gctagaacag gtctcagtag gtgaagtagg tgggaatact 360
ttgggatttt atgattgcca gttcaatgaa gatggctcca tgatcattgc tcatgcttcc 420
cacggagcgt tgcacctttg gaaacagaat acagttaacc caagagagtg gactccagag 480
attgtcattt caggacactt tgatggtgtc caagacctag tctgggattc agaaggagaa 540
tttattatca ctgttggtac tgatcagaca actagacttt ttgctccatg gaagagaaaa 600
gaccaatcac aggtgacttg gcatgaaatt gcaaggcctc agatacatgg gtatgacctg 660
aaatgttttg caatgattaa tcggtttcag tttgtatctg gagcagatga aaaagtctct 720
cgggtttttt ctgcacctcg gaattttgtg gaaaattttt gtgccattac aggacaatca 780
ctgaatcatg tgctctgtaa tcaagatagt gatcttccag aaggagccac tgtccctgca 840
ttgggattat caaataaagc tgtctttcag ggagatatag cttctcagcc ttctgatgaa 900
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aagtatttct tcaactgggag tcgagacaaa aagggtggtt tctgggggtg gtgtgactcc 1440
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gctgtgacag ctgtcagcgt ctgccagtg ctccaccctt ctcaacgata cgtggttgca 1560
gtaggattgg agtgtggaaa gatttgctta tatacctgga aaaagactga tcaagttcca 1620
gaaataaatg actggacca ctgtgtgaaa acaagtcaaa gccaaagtca tacactggct 1680
atcagaaaat tatgctggaa gaattgcagt ggaaaaactg aacagaagga agcagaaggt 1740

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gctgagtggt tacactttgc aagctgtggt gaagatcaca ctgtgaagat acacagagtc 1800
aataaatgtg cactgtaatg gaaa 1824

<210> 120
<211> 606
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (144)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (155)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (598)
<223> n equals a,t,g, or c

<400> 120
aggaagctgg gggaccattt tgcaccatga gtttgtgaaa aatctggatt aaaaaattac 60
tcttccagtg ttttctcatg cmaaatttyc tyctarcatg tgataatgag taaactaaaa 120
ctatttycag cttttcctca attnacattt tggtngtata cttcagagtg atgttatcta 180
agtttaagta gtttaagtat gttaaatgtg gatcttttac accacatcac agtgaacaca 240
ctggggagat gtgctttttt ggaaaactca aagggtgctag ctccctgatt caaagaaata 300
tttctcatgt ttgttcattc tagtttatat ttctatttaa aatcctttag gtttaagtta 360
agctttttaa aagttagtta aaagaattga gacacaatac taatactgta ggaattgggtg 420
aggccttgac ttaaaacttt ctttgtaactg tgatttcctt ttgggtgtat ttgctaagt 480
gaaacttggtt aaattttttg ttaactaaat ttttttctta aaataaagac tttttcacia 540
wraaaaaaaa aaaaaaaaaa actcgagggg gggcccgtag ccaatcgctt gtgatgtntc 600
gtatac 606

<210> 121
<211> 838
<212> DNA
<213> Homo sapiens

<400> 121
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gccaccatct tgctgggtgg cacggaggat gctcttctgc agcagctggc ggactcgatg 180
ctcaaagagg actgcgcctc cgagctgaag gtccacttgg caaagtccct ccctttgccc 240
tccagtgatga atcggcccg aattgacctg atcgtgtttg tggttaatct tcacagcaaa 300
tacagyctcc agaacacaga ggagtccctg cgccatgtgg atgccagctt cttcttgggg 360
aargtgtgtt tcctcgccac aggtggtggm rggctttagg gccaccatgg cgcacgcct 420
ggtgcgcgtg ctgcagatct gtgctggcca cgtgcccggt gtctcagctc tgaacctgct 480
gtccctgctg agaagctctg agggccctc cctggaggac ctgtgagggg ggctkgcccc 540

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tgggctgccc cttctcatgg cttcgtgctg actccataaa cattctctgt tgaggatgtc 600
cagtcagggc ttgacaggcc caggctcagc cccccgtggc tgggaaggtt ccctgcagtg 660
ccagtgtctg agcagggaga gctgggcaga agcagcgagg gggcccagct ggcgagactg 720
tagcccccctc ccactccac actcactctt gcagagcctg tgtctttaag cagctggcgt 780
gttacatctc catttaaggt ttcttttgaa caaaaggtct gtggctaaaa aaagttaa 838
```

<210> 122

<211> 656

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (41)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (218)

<223> n equals a,t,g, or c

<400> 122

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ggcacgagcg ctcttgctgc gacgcacggt cggaagcgga ncaaggtcga ggcggggttg 60
gcgccggagc cggggccgct tggagctcgt gtgggggtctc cggtccaggg cgccggcatgg 120
gcgtccttggc cgcagcggcg cgctgcctgg tcgggggtgc ggaccgaatg agcaagtggg 180
cgagcaagcg gggcccgcgc agcttcaggg gccgcaangg ccggggcgcc aaggggcatcg 240
gcttcctcac ctccgggttg aggttcgtgc agatcaagga gatgggtcccg gagttcgtcg 300
tcccggatct gaccggcttc aagctcaagc cctacgtgag ctacctgcc cctgagagcg 360
aggagacgcc cctgacggcc gcgcagctct tcagcgaagc cgtggcgccct gccatcgaaa 420
aggacttcaa ggacgggtacc ttcgaccctg acaacctgga aaagtacggc ttcgagccca 480
cacaggaggg aaagctcttc cagctctacc ccaggaactt cctgcgctag ctggggcggg 540
gagggggcgc ctgccctcat ctcatctcta ttaaacgcct ttgccagcta aaaaaaaaaa 600
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaagggggggg gggcggaacgc gtgggc 656
```

<210> 123

<211> 1386

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1283)

<223> n equals a,t,g, or c

<400> 123

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aaccgggnaa aaggaaaccg tggtgtgtac gtaagattca ggaaacgaaa ccaggagccg 60
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cggtgtgttg cgcaaaggtt actcccagac ctttttccgg ctgacttctg agaaggttgc 120
gcacagctgt gcccggcagt ctgagggcgc agaagaggaa gccatcgctt ggccccggct 180
ctctggacct tgtctcgctc gggagcggaa acagcggcag ccagagaact gttttaatca 240
tgacaaaaca aaactcacag atgaatgctt ctaccccgga aacaaacttg ccagttgggt 300
atcctctca gtatccaccg acagcattcc aaggacctcc aggatatagt ggctaccctg 360
ggccccaggt cagctaccca cccccaccag cgggccattc aggtcctggc ccagctggct 420
ttcctgtccc aaatcagcca gtgtataatc agccagtata taatcagcca gttggagctg 480
caggggtacc atggatgcca gcgccacagc ctccattaaa ctgtccacct ggattagaat 540
atttaagtca gatagatcag atactgattc atcagcaaat tgaacttctg gaagtttta 600
cagggtttga aactaataac aaatatgaaa ttaagaacag ctttggacag agggtttact 660
ttgcagcggg agatactgat tgctgtaccc gaaattgctg tgggccatct agacctttta 720
ccttgaggat tattgataat atgggtcaag aagtcataac tctggagaga ccactaagat 780
gtagcagctg ttgttgtccc tgctgccttc aggagataga aatccaagct cctcctgggt 840
taccaatagg ttatgttatt cagacttggc acccatgtct accaaagttt acaattcaaa 900
atgagaaaaag agaggatgta ctaaaaataa gtggtccatg tgttgtgtgc agctgttgtg 960
gagatgttga ttttgagatt aaatctcttg atgaacagtg tgtggttggc aaaatttcca 1020
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tccctttaga ccttgatgtt aaaatgaaag ctgtaatgat tgggtgcctg ttccctcattg 1140
acttcatgtt ttttgaaagc actggcagcc rggaacaaaa atcaggagtg tggtagtggr 1200
ttagtgaaaag tctcctcagg aaatctgaag tctgtatatt gattgagact atctaaactc 1260
ataccygtat grattaagcy gtnaaggcct gtagctctgg ttgtatactt ttgcytttcm 1320
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cattgg 1386

<210> 124

<211> 845

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (823)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (825)

<223> n equals a,t,g, or c

<400> 124

ggcagaggtt cacacccgga agcaggggcc cgaggcggag ccggccgcga tgagcgggga 60
gccggggcag acgtccgtag cgcctccctc cgaggagggtc gagccgggca gtgggggtccg 120
catcgtggtg gactactgtg aacctgcggg cttecgaggcg acctacctgg agctggccag 180
tgctgtgaag gagcagtatc cgggcacoga gatcgagtcg cgctcgggg gcacaggtgc 240
ctttgagata gagataaatg gacagctggt gttctccaag ctggagaatg ggggctttcc 300
ctatgagaaa gatctcattg aggccatccg aagagccagt aatggagaaa ccctagaaaa 360
gatcaccaac agccgtcctc cctgcgtcat cctgtgactg cacaggactc tgggttccctg 420
ctctgttctg ggggtccaaac cttggtctcc ctttggtoct gctgggagct cccctgcct 480
ctttcccta cttagctcct tagcaaaag accctggcct ccactttgcc ctttgggtac 540
aaagaaggaa tagaagattc cgtggccttg ggggcaggag agagacactc tccatgaaca 600
cttctccagc cacctcatac ccccttcca gggtaagtgc ccacgaaagc ccagtccact 660

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cttcgcctcg gtaataacctg tctgatgcc cagatTTTTt ttattctccc ctaaccacag 720
gcaatgtcag ctattggcag taaagtggcg ctacaaacac taaaaaaaaa aaaaaaaaaa 780
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa atntnggggg ggggcccccc 840
cccccc 845
```

<210> 125

<211> 1656

<212> DNA

<213> Homo sapiens

<400> 125

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<210> 126

<211> 837

<212> DNA

<213> Homo sapiens

<400> 126

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aaaattccag ttatttattt ccaaaatgtt tggaaacagt ataatttgac aaagaaaaat 180
gatacttctc tttttttgct gttccaccaa atacaattca aatgcttttt gttttatttt 240
tttaccatatt ccaatttcaa aatgtctcaa tgggtgtata ataaataaac ttcaacactc 300
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gcctcccta ttttaactac ctcaactggc cagaaacaca gattgtattc tatgagtccc 480
agaagatgaa aaaaatttta tacgttgata aaacttataa atttcattga ttaatctcct 540
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<210> 127

<211> 1217

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1168)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1169)

<223> n equals a,t,g, or c

<400> 127

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ttccgcagtt cgaagcccag ttgggcccag cagggtggagg aggaggggga ggacgacaaa 180
tgtgtcacca gcgagctcct caaggggac cctctggcca cagggtgacac cagcccagag 240
ccagagctac tgccgggagc tccactgccg cctcccaagg aggtcatcaa cggaaacata 300
aagacagtga cagagtacaa gatagatgag gatggcaaga agttcaagat tgtccgcacc 360
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ttcgggaact cagagtttga ccccccgga cccaatgtgg ccaccaccac tgtcagtgc 480
gatgtctcta tgacgttcat caccagcaaa gaggaacctga actgccagga ggaggaggac 540
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tggaaccacc gctgccccta caaggatacg ctggggccca tgcagaagga gctggccgag 660
cagctgggac tgtctactgg cgagaaggag aagctgccgg gagagctaga gccggtgcag 720
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cactgtgtac tcggtccggg acccttggcg acagaagaca gcctccgaga gcgcgggctc 1140
caagggaat aaagcagctc cactctcna aaaaaaaaaa aaaaaaaag ggccggccgct 1200
cgcgatctag aactagc 1217

<210> 128

<211> 1349

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (57)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1133)

<223> n equals a,t,g, or c

<400> 128

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gctgaggaca tgacatccaa agattactac tttgactcct acgcacactt tggcatccac 180
gaggagatgc tgaaggacga ggtgcgcacc ctcacttacc gcaactccat gtttcataac 240
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa                                     1349
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<210> 129

<211> 2318

<212> DNA

<213> Homo sapiens

<400> 129

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gcacggctcc gggtagccat ggaggacccc acgctctata ttgtcagcg gccgcttccc 180
gggtaccccc acgccgaggg cccggagcct tcctccgctg gggctcaggg agcggaggag 240
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ctgagcctcc tggacaaaat catcggggcc gtagaccaga tccagctgac tcaagcacag 360
ctggaggagc ggcaggcgga gatggagggc gcagtgacga gcatccaggg cgagctgagc 420
aagctgggca aggcgcacgc accacgagca atacggtgag caagctgctg gagaaggtgc 480
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gcaaggtcag cgtcaacgtg aagaccgtgc gcggcagcct ggagcgccag gcggggcaga 540
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tctaccagga tgaagtgaag ctgccggcca aactgagcat cagcaaatcg ctgaaagagt 660
cggaggcgct gccagagaag gagggcgagg agctgggcga gggcgagcgg ccagggagga 720
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<210> 130

<211> 2149

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (787)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (819)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1518)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2116)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2147)

<223> n equals a,t,g, or c

<400> 130

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ccacgcgtcc ggagaaggca gacgcattccc gaactcgtcg gaggacaagg ctacagctctt 120
gccaggccaa attgagacat gtctgacaca agcgagagtg gtgcagggtct aactcgtctt 180
caggctgaag cttcagaaaa ggacagttagc tcgatgatgc agactctgtt gacagtgacc 240
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<210> 131

<211> 1020

<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1019)
<223> n equals a,t,g, or c

<400> 131
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<210> 132
<211> 2319
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2246)
<223> n equals a,t,g, or c

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ttgggaccgg cggctgatgc aggatgacaa ccggggccta ggccaagggc tcaaggacaa 180

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caagagaacc tgcaaccgtt tccgcctcct gctagagcgg cgaaccrtgg gcagtggagt 240
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taagaatcaa ctgaagacct gttaagagta ttctgtaagt caaccaatg atacacatca 2160
tgttcctgtc cacatactgg ttttcccaa atcagctgat aaattcagtg taattccaat 2220
gagatgaaac tttggaattg acagtnctaa agtgcatagg gagagtgaat gtgtgagaac 2280
actaagacca ctctgaacga tgataatgag tttgggggt 2319

```

<210> 133

<211> 1373

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (403)

<223> n equals a,t,g, or c

<400> 133

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cgcgaccgga agtccgtcac tctcgcgagg ccccagagag caggcgctgg gcagtgtgga 60
ggtcgttgga gtcacttccg cgteaccagc tctgtgcct gccagtcggt gccctcccg 120
ctccagccat gctctccgcc ctgcgccgcg ctgccagcgc tgcctccgc cgcagcttca 180

```

```

gcacctcggc ccagaacaat gctaaagtag ctgtgctagg ggcctctgga ggcatcgggc 240
agccactttc acttctcctg aagaacagcc ccttggtgag ccgcctgacc ctctatgata 300
tcgcgccacac acccgagtg gccgcagatc tgagccacat cgagacccaa gccgctgtga 360
aaggctacct cggacctgaa cagctgcctg actgcctgaa agnttgatgt gtggtagtta 420
ttccggcttg agtccccaga aagccaggca tgaccggga cgacctgttc aacaccaatg 480
ccacgattgt ggccaccctg accgctgcct gtgcccagca ctgcccggaa gccatgatct 540
gcgtcattgc caatccggtt aattccacca tccccatcac agcagaagtt ttcaagaagc 600
atggagtgt caaccccaac aaaatcttcg gcgtgacgac cctggacatc gtcagagcca 660
acacctttgt tgcagagctg aagggtttg atccagctcg agtcaacgtc cctgtcattg 720
gtggccatgc tgggaagacc atcatcccc tgatctctca gtgcacccc aaggtggact 780
ttccccagga ccagctgaca gcactcactg ggcggatcca ggaggccggc acggagggtg 840
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ttgtcttctc ccttggtgat gcaatgaatg gaaaggaagg tgtgtggaa tgttccttcg 960
ttaagtaca ggaacggaa tgtacctact tctccacacc gctgctgctt gggaaaaagg 1020
gcacgcagaa gaacctgggc atcggcaaag tctcctcttt tgaggagaag atgatctcgg 1080
atgccatccc cgagctgaag gcctccatca agaaggggga agatttcgtg aagaccctga 1140
agtgaagcgc tgtgacgggt ggccagtttc cttaatattat gaaggcatca tgtcactgca 1200
aagccggttg agataaactt tgtattttta tttgcttttg tgatgattac tgtattgaca 1260
tcacatgcc ttccaaattg tgggtggctc tgtgggcgca tcaataaaaag ccgtccttga 1320
ttttattttt caaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 1373

```

<210> 134

<211> 1657

<212> DNA

<213> Homo sapiens

<400> 134

```

ggaacaagt cctgtagtgt gtttggatct gtaccctacg actgattata cggatgaatgt 60
gacctgtctg agatctccta agcggcactc agtcaaataa caatagcaac tccccagca 120
gtaaaacaga ccatcagtaa catttcagga tttaatgaaa cctgcttgag atggagaagc 180
atcaagacag ctgatatgga ggagatgtat ttattccaca ttggggcca gagatggtat 240
cagaaggaa ttgcccagga aatgacctt aatatcagta gcagcagccg agatcccag 300
gtgtgcttgg acctacgtcc ggtaccaac tacaatgtca gtctccgggc tctgtcttcg 360
gaacttcctg tggatcatct cctgacaacc cagataacag agcctccct ccggaagta 420
gaatttttta cgggtgcacag aggacctcta ccacgcctca gactgaggaa agccaaggag 480
aaaaatggac caatcagttc atatcaggtg ttagtgcttc ccctggccct ccaaagcaca 540
ttttcttggt attctgaagg cgcttcctcc ttcttttagca acgcctctga tctgtatgga 600
tacgtggctg cagaactact ggccaaagat gttccagatg atgccaatgga gatacctata 660
ggagacaggc tgtactatgg ggaatattat aatgcacct tgaaaagagg gactgattac 720
tgcattatat tacgaatcac aagtgaatgg aataaggatga gaagacactc ctgtgcagtt 780
tgggctcagg tgaaagattc gtcactcatg ctgctgcaga tggcgggtgt tggactgggt 840
tccctggctg ttgtgatcat tctcacattc ctctccttct cagcgggtgt atggcagatg 900
gacactgagt ggggaggatg cactgctgct gggcagggtgt tctggcagct tctcaggtgc 960
ccgcacagag gctccgtgtg acttccgtcc agggagcatg tgggcctgca actttctcca 1020
tccccagctg ggccccattc ctggatttaa gatggtggct atccctgagg agtcaccata 1080
aggagaaaac tcaggaattc tgagtcttcc ctgctacagg accagtctct tgcaatgaac 1140
ttgagactcc tgatgtacac tgtgatattg accgaagsta catacagatc tgtgaatctt 1200
ggctgggact tctctgagt gatgcctgag ggtcagctcc tctagacatt gactgcaaga 1260
gaatctctgc aacctcctat ataaaagcat ttctgttaat tcattcagaa tccattcttt 1320
acaatatgca gtgagatggg cttaagtttg ggctagagtt tgactttatg aaggagggtca 1380
ttgaaaaaga gaacagtgc gtaggcaaat gtttcaagca ctttagaagc agtacttttc 1440

```

```
ctataattag ttgatatact aatgagaaaa tatactagcc tgccatgccataaagtttcc 1500
tgctgtgtct gttaggcagc attgctttga tgcaatttct attgtcctat atattcaaaa 1560
gtaatgtcta cattccagta aaaatatccc gtaattaaaa aaaaaaaaaa aaaaaaaaaa 1620
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ggcggcc 1657
```

<210> 135

<211> 2360

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1517)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2330)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2353)

<223> n equals a,t,g, or c

<400> 135

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ggcacgagcg cagttgcgtg aggggtttgt rctatcctcg gtgctgtggt gcagagctag 60
ttcctctcca gctcagccgc gtaggtttgg acatatttga ctcttttccc cccaggttga 120
attgacaaa gcaatggtga tggagaagcc tagtccctg ctggtcgggc gggaatttgt 180
gagacagtat tacacactgc tgaaccagc cccagacatg ctgcatagat tttatggaaa 240
gaactctct tatgtccatg ggggattgga ttcaaatgga aagccagcag atgcagtcta 300
cggacagaaa gaaatccaca ggaagtgtat gtcacaaaac ttcaccaact gccacaccaa 360
gattcgccat gttgatgtc atgccacgct aaatgatggt gtggtagtcc aggtgatggg 420
gcttctctct aacaacaacc aggttttgag gagattcatg caaacgtttg tccttgctcc 480
tgaggggtct gttgcaaata aattctatgt tcacaatgat atcttcagat accaagatga 540
ggtctttggt gggtttgtca ctgagcctca ggaggagtct gaagaagaag tagaggaacc 600
tgaagaaaga cagcaaacac ctgaggtggt acctgatgat tctggaactt tctatgatca 660
ggcagttgtc agtaatgaca tggagaaca tttagaggag cctgttgctg aaccagagcc 720
tgatcctgaa ccagaaccag aacaagaacc tgtatctgaa atccaagagg aaaagcctga 780
gccagtatta gaagaaactg cccctgagga tgctcagaag agttcttctc cagcacctgc 840
agacatagct cagacagtac aggaagactt gaggacattt tcttgggcat ctgtgaccag 900
taagaatctt ccaccagtg gagctgttcc agttactggg ataccacctc atgttggtta 960
agtaccagct tcacagcccc gtccagagtc taagcctgaa tctcagattc caccacaaag 1020
acctcagcgg gatcaaagag tgcgagaaca acgaataaat attcctcccc aaaggggacc 1080
cagaccaatc cgtgaggtct gtgagcaagg tgacattgaa ccccgaaaga tggtagagaa 1140
ccctgacagt caccaactct tcattggcaa cctgcctcat gaagtggaca aatcagagct 1200
taaagatttc tttcaaagtt atggaaacgt ggtggagtgt cgcattaaac gtgggtggaa 1260
attaccaat tttggttttg ttgtgtttga tgattctgag cctgttcaga aagtccttag 1320
caacaggccc atcatgttca gaggtgaggt ccgtctgaat gtcgaagaga agaagactcg 1380
agctgccagg gaaggcgacc gacgagataa tcgccttcgg ggacctggag gccctcgagg 1440
tgggctgggt ggtggaatga gaggcctccc ccgtggaggg atggtgcaga aaccaggatt 1500
```

```
tggagtggga arggggnttg cgccacggca gtgaatcttc atggatcttc atgcagccat 1560
acaaaccttg gttccaacag aatggtgaat ttctgacagc ctttggatc ttggagtatg 1620
acccagctct gttataaact gcttaagttt gtataatttt actttttttg tgtgttaatg 1680
gtgtgtgctc cctctccctc tcttcccttt cctgaccttt agtctttcac ttccaatttt 1740
gtggaatgat attttaggaa taacggactt ttaaagaagc aaaaaaaaag actgaatttc 1800
cttgcttact ttgcataac agactggatt tttttttttt ttacagcca tttcccaaaa 1860
ggaatgtctt gcataattact gacatttggg atgtttcatt cattggaata tttcttattt 1920
tctacgtgtt tgaaaagcct gtaagaaata caggatttga taatattttg aaggcaggaa 1980
aaacccaaat tgtttcttct ttgagagtca tgactacctt ctggtgtgga gaaattgcc 2040
ttggaaaatt tgacaatttt gattctcact ggtatgttta aaactgaat aaaaggaata 2100
gaattttttt ttgataaagg atcacaaaac aattctaaaa cctaactgtt ttaccattg 2160
aaatttaa atgtgataata ggttttaa atgtctagaat caactgatag gcttttcttg 2220
aactgttagt ttttttgaag tagttttttc cakgtttaat ttgtatttgg ttaaaaaaac 2280
maaaaggcca aaaattcccc aaaccccg ttaaccacca grgscaaacn gttgtggcct 2340
tcccaattaa cntgggatt 2360
```

<210> 136

<211> 1042

<212> DNA

<213> Homo sapiens

<400> 136

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gccgggtggc gctgtctctg ggcgggcccgt gggaggctcc cgagggtggg gccggggcgg 60
gatggctgca gcggcggccg gggccgggag cgggccctgg gcggcccagg agaagcagtt 120
cccgccggcg ctgctgagtt tcttcactca caaccgcgc ttcgggcccgc gcgaaggaca 180
ggaggaaaaa aagattttat ttatcatccc aaatgaggta gaaaagaatg agaagattag 240
aaatgtcggg ttgtgtgaag ctattgtaca gtttacaagg acatttagcc catcaaaacc 300
tgcaaaatct ttacatacac agaagaacag acagttcttc aatgaaccag aagaaaattt 360
ctggatggtc atggttgttc ggartcctat aattgaaaaa cagagtaaa atggaaaaacc 420
agttattgaa tatcaagagg aggagttgtt ggacaagggt tatagctcgg tgcgcgcca 480
gtgctacagc atgtacaagc tttttaatgg tacatttctg aaagccatgg aagacggagg 540
cgtcaagctt ctgaaagaaa gattagagaa attcttccat cggattattg aaacgctaca 600
tttgacgtca tgtgacctac ttgacatttt tggtggaatc agcttcttcc cgttgataa 660
aatgacttat ttgaaaatcc agtcctttat taatagaatg gaggaagcc tgaatatagt 720
caaatacact gcttttctct ataacgatca gctcatctgg agtggattag aacaagatga 780
catgagaatt ttatacaaat accttaccac ctccccttty ccaaggcaca tcgaacctga 840
gttagcagga agggattctc caataagagc agaaatgccg ggaatcttc aacactatgg 900
aagatttctt accggaccct tgaacctcaa tgatccagat gcaaaatgca gattcccaa 960
aatttttgta aatacagwtg acacttatga agagctccat ttaatcgktt ataaggyctg 1020
agaaagaacc ccagtttaag tt 1042
```

<210> 137

<211> 1037

<212> DNA

<213> Homo sapiens

<400> 137

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ggcaaccggga gcggcgggtt ggtctacgct gtgcgcggcg gacgtcggag gcagcgggga 60
gcggagcggg gccgcgggg cctctccagg gcgcgagcgg cagcagttgg gcccccgcc 120
ccggccggcg gaccgaagaa cgcaggaagg gggccggggg gacccgccc cggccggcg 180
cagccatgaa ctccaacgtg gagaacctac ccccgacat catccgcctg gtgtacaagg 240
```

```

agggtgacgac actgaccgca gacccacccg atggcatcaa ggtctttccc aacgaggagg 300
acctcaccga cctccaggtc accatcgagg gccctgaggg gaccccatat gctggaggtc 360
tgttccgcat gaaactcctg ctggggaagg acttcctgct ctcccacccc aagggtact 420
tcctgaccaa gatcttcac ccgaacgtgg gcgccaatgg cgagatctgc gtcaacgtgc 480
tcaagaggga ctggacggct gagctgggca tccgacacgt actgctgacc atcaagtgcc 540
tgctgatcca ccctaacccc gagtctgcac tcaacgagga gccggggccgc ctgctcttgg 600
agaactacga ggagtatgcr gctcggggcc gtctgctcac agagatccac gggggcgccg 660
gcggggccag cggcagggcc gaagccggtc gggccctggc cagtggcact gaagcttcct 720
ccaccgaccc tggggcccca gggggcccg gaggggctga ggggccatg gccagaagc 780
atgctggcga gcgcgataag aagctggcgg ccaagaaaaa gacggacaag aagcgggcgc 840
tgccggcggt gtagtgggct ctcttcctcc tccaccgtg accccaacct ctctgtccc 900
ctccctccaa ctctgtctct aagttattta aattatggct ggggtcgggg aggggtacagg 960
gggcactggg acctggattt gtttttctaa ataaagtggg aaaagcaaaa aaaaaaaaaa 1020
aaaaaaaaaa aaaaaaa                                     1037

```

<210> 138

<211> 1490

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1225)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1239)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1348)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1452)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1487)

<223> n equals a,t,g, or c

<400> 138

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cggcacgagg tggattcttg tccatagtgc atctgcttta agaattaacg aaagcagtgt 60
caagacagta aggattcaaa ccatttgcca aaaatgagtc taagtgcatt tactctcttc 120
ctggcattga ttggtggtac cagtggccag tactatgatt atgattttcc cctatcaatt 180
tatgggcaat catcaccaaa ctgtgcacca gaatgtaact gccctgaaag ctaccaagt 240
gcatgtact gtgatgagct gaaattgaaa agtgtaccaa tggcgccctc tggaatcaag 300

```

III

tatctttacc ttaggaataa ccagattgac catattgatg aaaaggcctt tgagaatgta 360
actgatctgc agtggetcat tctagatcac aaccttctag aaaactccaa gataaaaggg 420
agagttttct ctaaattgaa acaactgaag aagctgcata taaaccacaa caacctgaca 480
gagtctgtgg gccacttcc caaatctctg gaggatctgc agcttactca taacaagatc 540
acaaagctgg gctcttttga aggattggta aacctgacct tcatccatct ccagcacaat 600
cggtgaaaag aggatgctgt ttcagctgct tttaaaggtc ttaaactact cgaatacctt 660
gacttgagct tcaatcagat agccagactg ccttctggtc tccctgtctc tcttctaact 720
ctctacttag acaacaataa gatcagcaac atccctgatg agtatttcaa gcgttttaat 780
gcattgcagt atctgcgttt atctcacaac gaactggctg atagtggaaat acctggaaat 840
tctttcaatg tgtcatccct gggtgagctg gatctgtcct ataacaagct taaaaacata 900
ccaactgtca atgaaaacct tgaaaactat tacctggagg tcaatcaact tgagaagttt 960
gacataaaga gctcttgcaa gatcctgggg ccattatcct actccaagat caagcatttg 1020
cgtttggatg gcaatcgcat ctcaraaacc agtcttcac cggatatgta tgaatgtcta 1080
cgtgktgcta acgaagtcac tcttaattaa tatctgtatc ctggaacaat attttatggk 1140
tatgkttttc tgtgkgtcag ttttcatagt atccatawtt tawtactgkk tattacttcc 1200
atgaatttta aaatctgagg gaaangtttg taaacattna tttttttaa gaaaagagaa 1260
aggcaggcct attcatcaca agaacacaca catatwcacg aatagacatc aaactcatgc 1320
tttatttgta aatttagtgt tttttantt ctacgtcaaa gatgtgcaaa accttttacg 1380
gttgcaggaa acagccagtt ttaaaatcct taaacttaag ttcctcaagc tggataaaac 1440
ataggagtac cnetgcacaa tatotgaaca tcaatgtcgg taaaatnggg 1490

<210> 139

<211> 1684

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (93)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (201)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1657)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1659)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1682)

<223> n equals a,t,g, or c

<400> 139

```
tcgacccacg cgtccggccg gctgagccac agcaggggtcg ccgcggggtc ccggggccgt 60
gctcccctgc ccctccggga gcgcgcgggg cgnngcgggg cggggcgggg ccaggcgggc 120
gagctggggc ctcgcccctc cctcgggcgg tcacctgggc acgggcgctg cagggtgtcg 180
ggcctcaacc ttgcggaccg nacagccatc gatcctcggg tggcctcgag gtggtggcag 240
ggccgcccc tgcagtccgg agacgaacgc acggaccggg cctccggagc argttcgggt 300
ggaargaamc gctctcgstt cgtcctacac ttgcgcaaat gtctccgagc ttactcacat 360
agcatattgg tataatcaaaa tgaatgcaa ggaacaaaa ataacataat tgaaggcagt 420
aaaagtgaat ttaaatagga agatcatcag tcaaggaaga cccactggag aggacagaaa 480
atgaagcagt gttttatcat gtgtatttca gcaggctctt ttgaaattta actaaaaata 540
tgactgctct ctcttcagag aactgctctt ttcagtacca gttacgtcaa acaaacccagc 600
ccctagatgt taactatctg ctattcttga tcatacttgg gaaaatatta ttaaatatcc 660
ttacactagg aatgagaaga aaaaacacct gtcaaaattt tatggaatat ttttgcattt 720
cactagcatt cgttgatctt ttacttttgg taaacatttc cattatatgt tatttcaggg 780
attttgactt ttttaagcatt aggttcacta aataccacat ctgcctattt actcaaatta 840
tttcctttac ttatggcttt ttgcattatc cagttttcct gacagcttgt atagattatt 900
gcctgaattt ctctaaaaa accaagcttt catttaagt tcaaaaatta ttttatttct 960
ttacagtaat ttttaatttg atttcagtc ttgcttatgt tttgggagac ccagccatct 1020
accaagcct gaaggcacag aatgcttatt ctgctcactg tcctttctat gtcagcatto 1080
agagttactg gctgtcattt ttcattggtg tgattttatt ttagctttc ataacctgtt 1140
gggaagaagt tactactttg gtacaggcta tcaggataac ttcctatatg aatgaaacta 1200
tcttatattt tcctttttca tccactcca gttatactgt gagatctaaa aaaatatctt 1260
tatccaagct cattgtctgt tttctcagta cctgggtacc atttgtaacta cttcaggtaa 1320
tcattgtttt acttaagtt cagattccag catatatgtg gatgaatatt ccctgggtat 1380
actttgtcaa tagttttctc attgctacag tgtattggtt taattgtcac aagcttaatt 1440
taaaagacat tggattacct ttggatccat ttgtcaactg gaagtgtctg ttcattccac 1500
ttacaattcc taactttgag caaattgaaa agcctatatc aataatgatt tgktaatat 1560
attaattaaa agttacagct gtcataagat cataatttta tgaacagaaa gaactcagga 1620
catattaaaa aataaactgr actaaaacaa aaaaaancna aaaaaaaaa aaaaggcgcg 1680
cnac 1684
```

<210> 140

<211> 427

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (395)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (417)

<223> n equals a,t,g, or c

<400> 140

```
ggacttcctc ccagcacatt cctgcactct gccgtgtcca caetgcccc cagacccagt 60
cctccaagcc tgctgccagc tccctgcaag cccctcaggt tgggccttgc cacggtgcc 120
gcaggcagcc ctgggctggg ggtaggggac tccctacagg cacgcagccc tgagacctca 180
gagggccacc ccttgagggt ggccaggccc ccagtggcca acctgagtgc tgcctctgcc 240
```



```

accagccctg ctggccctg gttccgctgg cccccagat gcctggctga gacacgccat 300
ggcccttcag ctggccca cytyttcccg gscctggaa kttggcaytg cagcagacag 360
ytccytgggc accagrcagy taacaggaca cagcngccag cccaaacagc agcgggnatg 420
ggggcag                                     427

```

```

<210> 141
<211> 889
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (60)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (698)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (889)
<223> n equals a,t,g, or c

```

```

<400> 141
ggcagagggt tgacgtcctg tagcatttgc tgttctagaa agtacagaga cacgtagaan 60
agatgggagg atctagaagg aggtgtctc ctgtgtagt tatatttato tgtaagttag 120
ccgttgggga aggattgaat acagagacgc tgtctgcttg ctgccttaag acagctagct 180
gaattgtctg ttaactttta aaatacccag cttggtttat ttttcttaga atctgttgct 240
aagactgggg acgctgtttt cttttacaaa gggaaatcta agttaatttc aaggcattcg 300
aaatggggaa agactattat tgcatttttg gaattgagaa aggagcttca gatgaagata 360
ttaaaaaaggc ttaccgaaaa caagccctca aatttcatcc ggacaagaac aaatctcctc 420
aggcagagga aaaattttaa gaggtcgagc aagcttatga agtattgagt gatcctaaaa 480
agagagaaat atatgrtcag tttggggagg aagggttgaa aggaggagca ggaggtagct 540
atggacaagg aggtaccttc cggtagacct ttcatggcga tcctcatgct acatttgctg 600
catttttcgg aggggtccaac ccctttgaaa ttttctttgg aagacgaatg ggtgggtgta 660
gagattctga agaaatggaa atagrtgggt atccttttag tgcccttggt ttcagcatga 720
atggatatcc aagagacagg aattctgtgg ggccatccc cctcaaacaa gatcctccag 780
ttattcatga acttagagta tcacttgaag agatatatag tgggtgtacc aaacgggatg 840
aaagatttct cgaaaaaggt taaaacgctg atggtaggag ttacagttn 889

```

```

<210> 142
<211> 1505
<212> DNA
<213> Homo sapiens

```

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<220>
<221> misc feature
<222> (1493)
<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (1499)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1500)
<223> n equals a,t,g, or c

<400> 142
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agcttttggc tccgttccgc tggctccttc gtcagtactg acacctcggg cttgtagagc 120
acttcacgca gcaaaagcgc ccccggtcta tatcatatcg cctctcggtc ctctaaaaag 180
tcgtatgaga tggagctgga ggaggggaag gcaggcagcg gactccgcca atattatctg 240
tccaagattg aagaactcca gctgattgtg aatgataaga gccaaaacct ccggaggctg 300
caggcacaga ggaacgaact aaatgctaaa gttcgcctat tgcgggagga gctacagctg 360
ctgcaggagc agggctccta tgtgggggaa gtagtccggg ccatggataa gaagaaagtg 420
ttggtcaagg tacatcctga aggtaaattt gttgtagacg tggacaaaaa cattgacatc 480
aatgatgtga caccgaattg ccgggtggct ctaaggaatg acagctacac tctgcacaag 540
atcctgccca acaaggtaga cccattagtg tcactgatga tggtaggagaa agtaccagat 600
tcaacttatg agatgattgg tggactggac aaacagatca aggagatcaa agaagtgatc 660
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gcagtagcca aggtcatgca gaaggacagt gagaaaaaca tgtccatcaa gaaattatgg 1380
aagttagtggt acagcctttg tgtgtatctc tccaataaag ctctgtgggc caagtcaaaa 1440
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aangggggnn 1500
cccccc 1505

<210> 143
<211> 1235
<212> DNA
<213> Homo sapiens

<400> 143
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ctccgcggag gaccaggag agccggacta ggaccagggc cctgggcctc cccacactcc 180
ccatggagaa gctggcggcc tctacagagc cccaagggcc tcggccggtc ctggggcctg 240
agagtgtcca ggtgcccgat gaccaagact ttgcgagctt ccggtcagag tgtgaggctg 300
aggtgggctg gaacctgacc tatagcaggg ctgggggtgtc tgtctgggtg caggctgtgtg 360

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agatggatcg gacgctgcac aagatcaagt gccggatgga gtgctgtgat gtgccagccg 420
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ttgagacttt tgacatcgcc cgcttgacag tcaacgctga cgtgggctat tactcctgga 540
ggtgtcccaa gccctgaag aaccgtgatg tcatcaccct ccgctcctgg ctccccatgg 600
gcgctgatta catcattatg aactactcag tcaaacatcc caaataccca cctcggaaag 660
acttggctcg agctgtgtcc atccagacgg gctacctcat ccagagcaca gggcccaaga 720
gctgctcat cactacctg gccaggtgg accccaaagg ctccctaccc aagtgggtgg 780
tgaataaatc ttctcagttc ctggctccca aggcocatgaa gaagatgtac aaggcgtgcc 840
tcaagtaccc cgagtggaaa cagaagcacc tgccctactt caagccgtgg ctgcacccgg 900
agcagagccc gttgccgagc ctggcgctgt cggagctgtc ggtgcagcat gcggactcac 960
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gagacaggac cgggcgagcc ctggggcggc ggccgctect gcactttctc cctccccca 1140
cccggcacct ggtggcaccg ggccaggccc aggcgggtgc tgcagcctgg ctggacagag 1200
ccccaataaa cgatccca ca gctcaaaaa aaaaa 1235

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<210> 144

<211> 1420

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1385)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1396)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1400)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1410)

<223> n equals a,t,g, or c

<400> 144

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gcaagaacgg agctgactga ggaaccaact ggagggtett cactctctcc ttccccagtg 60
tacaaaacca gttttctgca acattcagga gccaaatgag gaaaaagaat caagaatctg 120
actcacagcc catctgatct gttcaaagct gtcttttcca cctgctgaaa ttcattaaat 180
cactggaggg atgcataatg aatggagaat gagtgaactt ccaatgcaac ttggattcac 240
aaaccatta tcatagccaa tatgcagatt ttaaacagca ttccacattt catttgacca 300
tgtcttcttt ttcgcacgc ctgctgcaga attccctact agaattgtgaa acaacgaaca 360
aaccacagaa cttagagtgt gctggttagt cacataactt agtagcagga ttgtgtatcc 420
aggcacaagg gtgtctttgc taatgtttct ttgtacctg cctgtcttca aacgtataat 480
ggtatgggtc tttctttgtt gccagccata ttctacaaat aagaattttc aatatagtta 540

```

```
tgagtaatat aatTTtTatgt acatataatg ttagaatatt gtacagaatc ttggTTtTcta 600
cgatgcgctt ttcttTgttTc aaaaagagga aaatgcttga ttttTgttga tgatactttt 660
gttactgtcc ttaattttcc atagtTtTgt ttcttaattg tgctcactaa gcatcgatct 720
gtgctgatgc caagctatgg actatgtacg caagaccgag caatagacag aggtgcctag 780
ggTccaaaca cactgaacgc acgtggaccg cctggwtcag gagcctcatc agacccttct 840
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cttctgtgca gactttaaga gctgaacgtt ctggTtctTg aagccatgtg actgcgcaga 960
acaacctaag aaacccttTg tTtcctgagg ggTcgTtgac ctctccttcc gggTcgaggc 1020
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aagaaaagaaa ccaagtTgta cataagccca gcttttctTg tgggctaagt gtaagtTgta 1140
gtaacatggt caagccctc tttttTgggc tatgtaaagc ctttccTgTc ttgcattaat 1200
gctatctccc tTgtTactgt ttctcttaaa tggagcagat agaaatctgc agTgtTggca 1260
gataggTgga tgggagaggg atggataatt ttatctctTg ggccacagag ctggcagccc 1320
cagTtTgtcc agagTccttt aaatggaaac ccccaaatcc atcccttctt ttccctaacc 1380
cccangggga tattcntagn attaagggn cgggataagt 1420
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<210> 145

<211> 1919

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1882)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1898)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1919)

<223> n equals a,t,g, or c

<400> 145

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gcccacgcgt ccggccgctc gtccgcccgg cttgaggccc gcggggagcg cggcgcaatt 60
cgtcggcccg cggggggggc gcctcccggc atcttcgagg cgaccaagga ctaccaggaa 120
ggggagcggc tgggatggcg cgtccggggc ccgskagtac aaagcgggag acctggtctt 180
cgccaagatg aagggtacc cgcactggcc ggcccggtt gatgaactcc cagaggcgct 240
gtgaagcctt cagcaaaaca gtatcctatc ttcttttttTg gcacccatga aactgcattt 300
ctaggTccca aagacctttt tccatataag gagtacaaag acaagtTtTg aaagtcaaac 360
aaacggaaag gatttaacga aggattTgtg gaaatagaaa ataaccagag agtaaagTtt 420
actggctacc aggcaattca gcaacagagc tcttcagaaa ctgagggaga aggtggaaat 480
actgcagatg caagcagtga ggaagaaggt gatagagtag aagaagatTg aaaaggcaaa 540
agaaagaatg aaaaagcagg ctcaaacagg aaaaagTcat atacttcaaa gaaatcctct 600
aaacagTccc ggaaatctcc aggagatgaa gatgacaaaag actgcaaaag agaggaaaac 660
aaaagcagct ctgaggTtg agatgcgggc aacgacacaa gaaacacaaac ttcagactTg 720
cagaaaacca gtgaaggTg ctaactacca taatgaatgc tgcatattaa gagaaccac 780
aagaaggtta tatgtTtTgt tTctataatat tcttgattt gatatgaacc aacacatagt 840
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ccttggtgtc attgacagaa cccagtttg tatgtacatt attcatattc ctctctgttg 900
tgtttcgggg ggaaaagaca ttttagcctt ttttaaaagt tactgattta atttcatgtt 960
atgttggtgc atgaagttgc ccttaaccac taaggattat caagattttt gcgcagactt 1020
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caccatcatc aaacactcag ttaaatataa attaacattt tttagatgac cactcaacat 1140
aatgcttaag aatggaattt cctctctgtg acagaacca ggaattaatt cctaaatata 1200
taacgttggt atattgaaga cgaaattaaa attgtccttc agttttgagg ccatgtgtaa 1260
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tctttttgtg ttactccaaa ataaaggcaa tgattttatt ttttcccagt gccaatacaa 1440
ttttgagcta agcactcaag gtggatactt tacattttta agctggaatc agcaacagcc 1500
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tattgttgct attgtgataa tagagaattt tattttattt tatgccagct tatattgtga 1680
gaacacattt agtcagtttg ggttttatca atcctgttaa tgcttgctct tggaacatct 1740
ttcgcgtatt cacggtttgt agttgaaaag ttactgttaa aaaaatcaaa aacaaaaaaa 1800
tgtattgttt ttacagaata aatttatttg aatgtgwact ggggagtaag atttgaggtt 1860
gtaagcaaac taagtttagt tnaattggcc tccaatangt aacgtggagg catthaatgn 1919

<210> 146

<211> 1379

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (925)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1371)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1377)

<223> n equals a,t,g, or c

<400> 146

gcccacgcgt ccgcccacgc gtccgcccac gcgtccgccc acgcgtccgg taagtttaga 60
tgactgggtca atatcttaaa aatgtatatt agtaagaagt tcttcctgga atttttcttt 120
cgattctggc agaataaaca ggtgttttta gttttccac tgtctgagcc aagcaggacc 180
ctgtcccaga gcaagagatg tcccttcca tctctgacct ttgcctggga caagctttga 240
tggggggccc cagcttcaag gctgtggtgg gaacagcacc cccaaatgcc agcctctcct 300
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atttctgggtg ggaatagcct tccagtgcc cagggccact caccctatgc atctctgtcc 420
tgcccgtcag tgctgggacg gacagcaagg gcaagcccag tgtctggcrg ataggtgggt 480
gggaacagag aggggagaat gccgtcctaa gcttctgctt ggggatcccc cacacgacct 540
gggtactgcc tgggaaacct gtcctaagta aaactatgga cctcgcctcg cccaccggcc 600
tgcraggcca gcattctcgt gaaggtggat ggaagcgcct ttgtcctcay tttagctgc 660

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aagctgggtc agcgggtctg aagccctcga gtgactttct aacccaagac ccagccctg 720
gcaggaggag ggtgggtgca gggctggtg gacaaaaaga ggctcagca ggctggaag 780
acccttccag tacatcccac agcgtgtcga gcagctggga gaacctgtgt caagctcgag 840
ccgtcatagg tccccatgag gtgtctgaag ccccttcttg gtgatgggag gcagaggtgc 900
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tgcttgaggt ggccggccct gcttgtgcca tgtggatgtt tgtgagcctc ggtccacag 1260
cactgtgtag gctgcatctg tttcgtgctg gtccgtgtga cttgtatgat atccacaaat 1320
aaatatattc atggcaaaaa aaaaaaaaaa aaaaaaaaaa aaaagggggg nccccnaa 1379

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<210> 147

<211> 514

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (406)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (412)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (418)

<223> n equals a,t,g, or c

<400> 147

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ttnggaaact gatcacttat caaggcttta tatattottt acggatttag acatcaccat 60
accaagaagc ttactccatc tattccggtc ttgtaggac aggccttcatt tttcagccca 120
tgttctgtaa gccacacagt atgcctgcag aagctgctta tcggagccaa atataattgt 180
cagtacaatt taaagaccac tatgtgtccc cggagaccaa cctgtttatt tccctgaaag 240
accgcaacac cccacacaac atgtttcaga catttggacc ttgttagata agacacttgt 300
aggagaaaga gatttcttaa attaatgtagc ttatatacc ctagagaagg ccatacaaat 360
ctgcggacgc gtgggcggac gcgtgggggg accgtgggtc gaacgnaccc ancgtccncg 420
gacgcgtggg cggacgcgtg ggcggacgcg tgggcggacg cgtgggcgga cgcgtgggcg 480
gacgcgtggg cggacgcgtg ggcggacgcg tggg 514

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<210> 148

<211> 2058

<212> DNA

<213> Homo sapiens

<400> 148

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gccgccgcgcg tccagccgag tccccactcc ggagtcgcgcg ctgccgcggg gacatggtcc 120
tctgcgttca gggacctcgt cctttgctgg ctgtggagcg gactgggcag cggccccctgt 180
gggccccgctc cctggaactg cccaagccag tcatgcagcc cttgcctgct ggggccttcc 240
tcgaggaggt ggcagagggg accccagccc agacagagag tgagccaaag gtgctggacc 300
cagaggagga tctgctgtgc atagccaaga ccttctccta ccttcgggaa tctggctggg 360
attgggggtc cattacggcc agcgaaggcc gacaacacct gcagaagatg ccagaaggca 420
cgttcttagt acgtgacagc acgcacccca gctacctgtt cacgctgtca gtgaaaacca 480
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atgtggcctc ctgcactgct gatacccgaa gcgacagccc cgatcctgct cccaccccg 660
ccctgcctat gcctaaggag gatgcgccta gtgaccagc actgcctgct cctccaccag 720
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tgcaaacctt gtgccgcctt gtcatacaacc gtctgtggc cgacgtggac tgcctgccac 840
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cccctactgg cagccagcct ctgtttctgg gaggatgaca tgcagaggaa ctgagatcga 1320
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gccctgagcc ctggtagtcc agagacccca actctgccct ggcttctctg gttcttccct 1500
gtggaagacc catcctgaga catcttgctg gaaccaaggc aatcctggat gtcctggtac 1560
tgaccacccc gtctgtgaat gtgtccactc tcttctgccc ccagccatat ttggggagga 1620
tggaacaata caataggtaa gaaaatgcag ccggagcctc agtccccagc agagcctgtg 1680
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cagttctgct aggtctgctt cctgcccagg aaggtgcctg cacatgagag gagagaaata 1860
cacgtctgat aagacttcat gaaataataa ttatagcaaa gaacagtttg gtggtctttt 1920
ctcttccact gatttttctg taatgacatt atacctttat tacctcttta ttttattacc 1980
tctataataa aatgatacct ttcattgtaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2040
aaaaaaaaaa aaaaaaag                                     2058
```

<210> 149

<211> 1781

<212> DNA

<213> Homo sapiens

<400> 149

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ggcaattact aaggaaggat tgtatttatg aggataactt cattatttct ctctcttttt 60
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taactcccag ggggttgact ggtggggtaa ctgagcctgc tttgcagtag gtcaccctgc 180
caaacaagct aatatggaaa ccacatgtaa cttagccaga ctataccttg ttagcttca 240
agaactcgca gtacattacc agctgtgatt ctccactgaa attttttttt taaggagct 300
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caagggtcaca agaagaaatg aaaggaacaa tcagcagccc tggtcagaag gtggtttgaa 360
gacttcattg ctgtagtttg gattaactcc cctccgcctt acccccatcc caaactgcat 420
ttataatttt gtgactgagg atcatttggt tgtaaatgta ctgtgccttt aacttttagac 480
aactttttat tttgatgtcc tgttggtcca gtaatgctca agatatcaat tgttttgaca 540
aaataaattt actgaacttg ggctaaaatc aaaccttggc acacaggtgt gatacaactt 600
aacaggaatc atcgattcat ccataaataa tataaggaaa aacttatgct gtagcctgca 660
ttagggcttt ttgatacttg cagattgggg gaaaacaaca aatgtcttga agcatattaa 720
tggaattagt ttctaattgt gcaaactgta ttaagttaaa gttctgattt gctcactcta 780
tcctggatag gtatttagaa cctgatagtc ttttagccat tccagtcatt atgaggtgat 840
gtatgaatac atgcatacat tcaaagcaat gttttcaaag ttaatgcaag taaatacagc 900
aattcctctt tcaacgttta ggcagatcat taattatgag ctagccaaat gtgggcatac 960
tattacaggg aaagtttaaa ggtctgataa cttgaaatag gtttttagga gaattcatct 1020
acttagactt tttaaatgcc tgccataaat gaaattgaaa tggtagaatg gctgaccaca 1080
gcaatgacca gccctcata ggccctgga tgatttttg tctaataacg catgctagtgt 1140
ttgatgtttt ttggtcaaga gggatgaac aggaagaatt aaatgcagca ggctttattt 1200
taaatgccga ttcacattac tctgttcaag ctgcgttgag atgttaaact ggcttactat 1260
agacttcgta aaaatggctc cagaagagta acaaactgaa atctttgaga tcacacaggt 1320
tggaatatgt tacataactg cacaaggtgt caattctgct ctacagtga gttttagtca 1380
gttttagttg cataggtttc cattgtattt atagtctgtt tatgctaaat ctggccaaag 1440
atgagcattg tccaccacta aaatgcctct gccactttga attctgtgct aattttgtgg 1500
ccagaatgct gtgatcaaaa cgtccatct tttacagtg gcataggaag acggcaaaaa 1560
tttccataag tgcaatagat tttcaagtgt attgtgcctt gttctaaaac ttttattaa 1620
taggtgcaat tgacagtatt gaggtcattt gttatggtgc tatttcaatt agtctaggtt 1680
tagggccttg tacattttgc ccataacttt ttacaagtac ttcttttatc gcwcatataa 1740
agcggggggc ctaatcacta tgccggattg aggcgcagag g 1781
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<210> 150

<211> 1709

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1612)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1660)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1678)

<223> n equals a,t,g, or c

<400> 150

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gttgaggagg tgagttttga caccaatgag cagtcgctgg agcaggtctt ctcaaagtac 180
ggacagatct ctgaagtggg ggttggtgaa gacagggaga ccagagatc tcggggattt 240
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<211> 922

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<213> Homo sapiens

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<222> (922)

<223> n equals a,t,g, or c

<400> 151

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cacctcgggg acattattgc gcgtggaacg gctgcttttg gaagactatt gccagaaga 180
aaagatgttt ggttttcaca agccaaagat gtaccgaagt atagagggct gctgtatttg 240
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<210> 152

<211> 635

<212> DNA

<213> Homo sapiens

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<221> misc feature

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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (594)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (614)

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<221> misc feature

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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (628)

<223> n equals a,t,g, or c

<400> 152

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<210> 153

<211> 2328

<212> DNA

<213> Homo sapiens

<400> 153

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<211> 1268
<212> DNA
<213> Homo sapiens

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<222> (80)
<223> n equals a,t,g, or c

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<211> 4299
<212> DNA
<213> Homo sapiens

<220>
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<222> (2813)
<223> n equals a,t,g, or c

<400> 155
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<211> 1006

<212> DNA

<213> Homo sapiens

<400> 156

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<210> 157

<211> 1686

<212> DNA

<213> Homo sapiens

<400> 157

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<210> 158

<211> 4147

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (292)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4145)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4146)

<223> n equals a,t,g, or c

<400> 158

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<210> 159

<211> 1242

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1235)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1236)

<223> n equals a,t,g, or c

<400> 159

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ggcacacccct tcacggttgc taccagggcg gccaaagctcc agaccgtgcc agaccaggt 1080
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaanngggg gg 1242

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<210> 160

<211> 2229

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (43)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (55)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (59)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (128)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (301)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2226)

<223> n equals a,t,g, or c

<400> 160

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ncaatattat taaaatactc atttggaata gaattccata tgggttaacc agagtactgt 360
tgggatgggt gtggctatct gcacgtagca gatttcctgc ttttattcaa agmcaatatt 420
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<210> 161

<211> 1920

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (43)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (119)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1755)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1766)
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<222> (1832)
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<220>
<221> misc feature
<222> (1841)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1915)
<223> n equals a,t,g, or c

<400> 161
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<210> 162

<211> 2619

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2546)

<223> n equals a,t,g, or c

<400> 162

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<210> 163

<211> 1419

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (230)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (624)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (697)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1187)

<223> n equals a,t,g, or c

<400> 163

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ggtgattagc ggtggcgcca gccntaggct acccttgcca aggcgcgcca cctgcatcag 660
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<210> 164

<211> 3810

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (189)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2523)

<223> n equals a,t,g, or c

<400> 164

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catgtaattc gaattgaaca acgttctgga ttgatcagag ctagattaaa aggagctgct 660
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<210> 165

<211> 817

<212> DNA

<213> Homo sapiens

<400> 165

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ccactggaga gaacaggctg gcctctgcac tctggattgg tgacaggagt tatccaggcc 120

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tgtotgaagg caatagcagg cctcccatcc ctggaccgcc ttatgtggcc tcccctgacc 180
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<210> 166

<211> 1578

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (16)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (38)

<223> n equals a,t,g, or c

<400> 166

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tgggagggaa accatgtctt gctaaacctg tttctggtgc ctcccatccc cagaccacc 180
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cataccagat aatagctgca ttactgcaa ctgaccttat aaccctctgc accttcaaaa 1500
agattcatgg tttttaattg ctgcttttaa taacatttgt taaagttaaa aaaaaaaaaa 1560
aaatcttcgg gggggggg 1578

<210> 167

<211> 1694

<212> DNA

<213> Homo sapiens

<400> 167

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tcgcaccggc ttccgggtga ctgcttccta ctgctcgtgc tgctgtctta cgcgccagtc 180
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cctcacccaa ctcacaacag gctggatggg tgggtggtaa aaaggggaag atgaggctcc 1620
cccaatgtca cattaaattc atggttttca ttcaacaaaa aaaaaaaaaa aaaaaaaaaa 1680
aaaaaaaaact cgag 1694

<210> 168

<211> 1636

<212> DNA

<213> Homo sapiens

<400> 168

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gtgctgttgc acgtgctgtt tgagcagcgc gtcggctacg cgctgctggc gctgaaggaa 120
gtggaggaga tcagtctgct gcagccgcag gtggaggagt ccgtgctcaa cctgggcaaa 180

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ttccacagca tcgttcgtct ggtggccttt tgtccctttg cctcatccca ggttgccctg 240
gaaaatgcc aacgcgtgtc tgaaggggtt gttcatgagg acctccgcct gctcttgagg 300
acccacctgc cgtccaaaaa gaagaaagta ctcttgaggag ttggggatcc caagattggt 360
gccgcaatac aggaggagtt agggtaacaac tgcagactg gaggagtcac agctgagatc 420
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ttgaagagac cgctgg                                     1636

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<210> 169

<211> 667

<212> DNA

<213> Homo sapiens

<400> 169

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ctggagcccc agatcacccc tctctactac accacttctg acgctgtcat ttccactgag 180
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667

<210> 170

<211> 3598

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (16)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (22)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (964)
<223> n equals a,t,g, or c

<400> 170
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ggcctccacc gcggccggga agcagcggat tcccaaagtg gccaaagtga aaaacaaagc 180
ccgggctgag gtacagataa ctgctgaaca actcttaaga gaggctaaag aaagagaact 240
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<211> 1013

<212> DNA

<213> Homo sapiens

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<211> 1697

<212> DNA

<213> Homo sapiens

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<211> 1409

<212> DNA

<213> Homo sapiens

<400> 176

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<211> 1503

<212> DNA

<213> Homo sapiens

<400> 177

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<210> 178
<211> 1378
<212> DNA
<213> Homo sapiens

<220>
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<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (82)
<223> n equals a,t,g, or c

<400> 178
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actttattct tctggtgagc tccctgaata tttatttttc tgattataaa tttctatat 180
tagtagcatt ttttaattat tacttcttca ctatagagca tttactttta gtctctagat 240
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aactccttgg atttatttcc cattttaaaa tttttagcgg taagttcaga tttataatct 360
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acaaactttt ttttgtcatt aaacaatata gtataacaac tatttacaaa gcatttacat 600
tgtattagct attataggta atctagagat gatttaaagt gtatggtagg atgtgcacag 660
gttatatgca aatactacac cattttctat aagggacttg aacatcatgg actttagtag 720
cctagggggg tcttgggaacc catcaccat aggggcacca taggacaact atagtaccgt 780
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gcacatactc aataaataaa tgactgcatt gttgtaaaaa aaaaaaaaaa aaaaaaaaaa 1378

<210> 179
<211> 2251
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2020)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2050)
<223> n equals a,t,g, or c

<400> 179
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ctcccgccgc cccctcaccg cgacctggcc ggggagccgc gagcgtaga cgccgcctt 180
ccgggaaagt cttaatagac atcgatactt gaattcttta tttccagtg aaaactccac 240
cgccctctat ggaataaatc agttttccta ttgtttcct gaagagtta aagccattta 300
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caatgtgtct ttgccgttaa gatttgactg gagggacaag caggttgtaga cacaagttag 420
aaaccagcag atgtgtggag gatgctgggc cttcagcgtg gtgggggcag tggaaatctgc 480
ttatgcaata aagggggaagc ccctggaaga cctaagtgtc cagcaggtca ttgactgttc 540
gtataataat tatggctgca atggaggctc tactctcaat gctttgaact ggtaaaca 600
gatgcaagta aaactggtga aagattcaga atatcctttt aaagcacaaa atggtctgtg 660
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cagtgaacaa gaagatgaaa tggcaaaagc acttcttacc ttggccctt tggtagtcat 780
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tagtcgcttt cggtgacctg tccgtacgtt t 2251

<210> 180
<211> 1000
<212> DNA
<213> Homo sapiens

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<400> 180

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gggatctcac cgtgggtccg attagccttt tctctgcctt gcttgcttga gcttcagcgg 180
aattcgaaat ggctggcgggt aaggctggaa aggactccgg aaaggccaag acaaaggcgg 240
tttcccgctc gcagagagcc ggcttgcagt tcccagtggt ccgtattcat cgacaccta 300
aatctaggac gaccagtcac ggacgtgtgg gcgcgactgc cgctgtgtac agcgcagcca 360
tcctggagta cctcaccgca gaggtacttg aactggcagg aaatgcatca aaagacttaa 420
aggtaaagcg tattaccctt cgtcacttgc aacttgctat tcgtggagat gaagaattgg 480
attctctcat caaggctaca attgctggtg gtggtgtcat tccacacatc cacaaatctc 540
tgattgggaa gaaaggacaa cagaagactg tctaaaggat gcctggattc cttgttatct 600
caggactcta aatactctaa cagctgtcca gtgttggtga ttccagtgga ctgtatctct 660
gtgaaaaaca caattttgct tttttgtaat tctatttgag caagttggaa gtttaattag 720
ctttccaacc aaccaaattt ctgcattcga gtcttaacca tatttaagtg ttactgtggc 780
ttcaagaag ctattgatc tgaagtagtg ggttttgatt gagttgactg tttttaaaaa 840
actgtttgga ttttaattgt gatgcagaag ttatagtaac aaacatttgg ttttgtacag 900
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aaaaaaaaaa aaaaaaaaaa maaaaaaggg gggggccccc 1000
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<210> 181

<211> 1429

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (761)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1407)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1420)

<223> n equals a,t,g, or c

<400> 181

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actgggactc ccagcagagc ccaccagcca gccctggccc acccccacgc ctccagagaa 60
gccccgcacg ggctgtcttg gtgtccgcca tccagggtct ggcagagcct ctgagatgat 120
gcatgatgcc ctcccctcag cgcaggctgc agagcccgcc cccacctccc tgcgcccttg 180
aggggccccg gcgtctgcag ggtgacgcct garacagcac cactgctgag gaggtaggac 240
tgtcctccca cagacctgca gtgaggggcc ctccatgcgc agatgagggg cactgaccc 300
acctgcgctt ctgctggagg aggggaagct gggcccaaag gccmgsgrag gcagcgtggg 360
ctctgccaat gtgggctgcc cctcgcacac agggctcaca ggcaggcct tgctggggtc 420
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cagggctggt ggaggacccc gagggctgag gagcagcagg acccgctgc tcccatcctc 480
accagatca ggaaccaggg cctccctgtt cacggtgaca caggtcaggg ctacagagtga 540
ccctcrgetg tcacctgctc acagggatgc tggtagctgg tgagaccccg cactgcasac 600
gggaatgcct aggtcccttc ccgaccacgc cagctgcagg gcacggggac ctggatagtt 660
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caccgctcag tgtcagcggg tgacgtgtgt tcttttgagt ccttgtaga ataaaaggct 1380
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<210> 182

<211> 2725

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2713)

<223> n equals a,t,g, or c

<400> 182

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tacagccagg cctgccaccc cttaggctcc aaagtccgga ggtgcagaaa gccaggacca 180
agagacaggc agctcaccag ggtggacaaa tcgccagaga tgtggtgcat tgcctgttt 240
tcaacttttg catgggttta tgcctgagcct accatgtatg gggagatcct gtcccctaac 300
tatcctcagg catatcccag tgaggtagag aaatcttggg acatagaagt tcctgaaggg 360
tatgggattc acctctactt caccatctg gacattgagc tgtcagagaa ctgtgcgtat 420
gactcagtgc agataatctc aggagacact gaagaaggga ggctctgttg acagaggagc 480
agtaacaatc cccactctcc aattgtggaa gagttccaag tccatacaa caaactccag 540
gtgatcttta agtcagactt ttccaatgaa gagcgtttta cggggtttgc tgcatactat 600
gttgccacag acataaatga atgcacagat tttgtagatg tccctttag ccacttctgc 660
aacaatttca ttggtggtta cttctgctcc tgcccccccg aatatttcct ccatgatgac 720
atgaagaatt gcggagttaa ttgcagtggg gatgtattca ctgcactgat tggggagatt 780
gcaagtcaca attatcccaa accatatcca gagaactcaa ggtgtgaata ccagatccgg 840
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gctgactcag cgggaaactg ccttgacagt ttagtttttg ttgcaggaga tcggcaattt 960
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agtaattcca aactgaaatg tcaacctgtg gactgtggca ttctgaatc cattgagaat 1320
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<210> 183

<211> 1751

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (344)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (416)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1617)

<223> n equals a,t,g, or c

<400> 183

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ggcatgttgt tgggactggc ggccatggag ctgaagggtgt ggggtggatgg catccagcgt 120
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gcaataggcc agactggcgg ctttgtgctt gtgcagcggc ttccgggagaa ggagcggcag 240
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gtccagtttg tcctgaggcg cacagggccc agcctagctg ggangccctc ctacagacagc 360
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ctgggctgtg agccccgcaa aacactgacc cccgagccag cccccagcct ctacagccct 480
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aaaaaaaaa a 1751

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<210> 184

<211> 2200

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2096)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2140)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2157)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2181)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2184)
<223> n equals a,t,g, or c

<400> 184
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catgtgtgtg aaaccatcat ccgcactctt aaaagacatg gagctgttca gttgtgtact 120
ccactactgc ttccccgaaa cagacaaata tatgagcaca acgaagctgc cctattcatg 180
gaccacagcg ggatgctggt gatgcttcct ttgacctgc ggatcccttt tgcaagatat 240
gtggcaagaa ataatatatt gaatttaaaa cgatactgca tagaacgtgt gttcaggccg 300
cgcaagttag atcgatttca tcccaaagaa cttctggagt gtgcatttga tattgtcact 360
tctaccacca acagctttct gccactgct gaaattatct acactatcta tgaaatcatc 420
caagagtttc cagcacttca ggaaagaaat tacagtatct atttgaacca taccatgtta 480
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attctgtatg atgctgtgac agagaagctg acgaggagag aagtggagc taaattttgt 600
aatctgtctt tgtcttctaa tagtctgtgt cgactctaca agtttattga acagaaggga 660
gatttgcag atcttatgcc aacaataaat tcattaataa aacagaaaac aggtattgca 720
cagttggtga agtatggctt aaaagacctt gaggaggttg ttggactgtt gaagaaactc 780
ggcatcaagt tacaggtctt gatcaatttg ggcttggttt acaaggtgca gcagcacaat 840
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<210> 185
<211> 1987
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature

<222> (523)

<223> n equals a,t,g, or c

<400> 185

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aagcaaagat tgaagacaaa aaagttcaga gagaaagtaa actaacttcc ggaaagtggg 420
agaatctcag aaaagaaaag ataaacttct tgcggaataa acacaaaatt cactccaag 480
gaaccgatct tcctgaccca attgctacat ttcagcaact tgnaccagga atataaaatc 540
aattctcgac tacttcagaa cattctagat gcaggtttcc aaatgcctac gccaatccaa 600
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tttatgatcc cagcatgaat gttattttca tggaaactt gaagtcttac agtcacctgt 1920
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caagtca 1987
```

<210> 186

<211> 1737

<212> DNA

<213> Homo sapiens

<400> 186

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ggatgatatg tgggcaaaat cacttatgaa agtagaagca agaatacagt ggtttgtac 180
cacataaagc catgctgttt ttggtcaaac tgtgtaaact ggaaaaattc acatcatttc 240
tgagtttaat cacttttagga tatattcaca ttgttttggg gaatttgctg aattgaattg 300
ttttcttttc tcaaatctgt gatctctttt ctttatcctg tttctttgtt cctttcgttt 360
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gctttcttat ttttcttttg ttccattctt ttcttacttt tttccctttt ctttttttgg 420
ggaggctggc tagtagtggt tgagaaaaga atagaagtga aatttgcata atgaatgtaa 480
aagggaataa aaagtctttt gaaggtagct atactagcac ttttgatcat cttcagggcc 540
cacaaaaatg ttgtcaagat tttaaagggt tataattctg cttaagctct agtttggact 600
taggtatcct aactatggtt gaggtatttg cattgtttta agttaggata aaagcaagtt 660
cctcctgtga ctgcaacgtc ttactgattg ggacagttgc caggaggata ccaacttgat 720
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gtatatatth cttgccataa tggtaaagga ctgattgata tatttaagag ttaataaatt 1680
tgtgatttct gctgaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 1737
```

<210> 187

<211> 1132

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1131)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1132)

<223> n equals a,t,g, or c

<400> 187

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agatcctgga gtcccagagg cccctgcag gcatccctgt agcccatcc agtggtgag 180
gaggtccag gctgaggac caagggatgg cccgactcgg cggtttgagg aggatgcagg 240
gatatgtca cagcgcccca cacaaccccc tcccgcgcgc ccaaacacc cagggccacc 300
atcagacaac tccctgcatg caaaccccta gtaccctctc acaccgcac ccgcgcctca 360
cgatccctca cccagagcac acggccgcgg agatgacgtc acgcaagcaa cggcgctgac 420
gtcacatata accgtggtga tggcgtcacg tggccatgta gacgtcacga agagatatag 480
cgatggcgctc gtgcagatgc agcacgtcgc acacagacat ggggaacttg gcatgacgtc 540
acaccgagat cgagcaacga cgtcacgggc catgtcgacg tcacacatat taatgtcaca 600
cagacgcggc gatggcatca cacagacggt gatgatgtca cacacagaca cagtgaac 660
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```

<210> 188

<211> 1267

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<400> 188

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tggaacggcag ctatgcgact caccgtgctg tgtgctgtgt gcctgctgcc tggcagcctg 180
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gccaaactca aggagatgca aaaattcttt ggcctaccta taactggaat gttaaaactcc 360
cgcgcatag aaataatgca gaagcccaga tgtggagtgc cagatgttgc agaatactca 420
ctatttccaa atagcccaaa atggacttcc aaagtgggtc cctacaggat cgtatcatat 480
actcgagact taccgcatac tacagtggat cgattagtgt caaaggcttt aaacatgtgg 540
ggcaaaagaga tccccctgca ttccaggaaa gttgtatggg gaactgctga catcatgatt 600
ggctttgcgc gaggagctca tggggactcc taccattttg atgggccagg aaacacgctg 660
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ctccttttaa ggataaactc ctttatgttg tgactgtgtc ttattcatct atacttgacg 1140
tgggtagatg tcaataaatg ttacatacac aaataaataa aatgtttatt ccatggtaaa 1200
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aaaaata 1267
```

<210> 189

<211> 3787

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (155)

<223> n equals a,t,g, or c

<400> 189

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ggtcggcctg gaagcagcca agacggaaaa gcaantgtgt gagcccgaaa acccatgcaa 180
ggacaagaca cacaactgcc acaagcacgc ggagtgcac tacctgggtc acttcagcga 240
ccccatgtac aagtgcgagt gccagasagg ctacgcgggc gacgggctca tctgcgggga 300
ggactcggac ctggacggct ggcccaacct caatctggtc tgcgccacca acgccaccta 360
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caattgtccc tacgtctaca aactgacca gagggacacg gatggtgacg gtgtggggga 720
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aaaaaaa 3787
```

<210> 190

<211> 554

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (520)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (542)

<223> n equals a,t,g, or c

<400> 190

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gttgatcagt acagaaaaca aattgtataa caggattata aaaaaactaa acctatttta 180
cgagcaacca aattaaaagc agaagcaaa gaaacagcaa taggcataaa ggaagttggc 240
ctgtacttg cagctatatt ggcactacta ctggctttct atgctttctt ttatctcaga 300
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tgcatgaaag agaaataact ttacgaaagc accttttggg accaaaactt tcaatactga 420
aactgtaaca tctttaattm tttctgctaa tattttcagt ttgcagacat atgatttttg 480
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atagttgcat aggatgtcag gaaaagaacc ttacctagcn atgcagtata gtatgtgcta 540
cngggatact tgta 554

<210> 191

<211> 874

<212> DNA

<213> Homo sapiens

<400> 191

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gcaggaagga cggacttcag gggcagctag aggaaatgac agagcttgaa tctcctaaat 660
gtaaaaggca ggaatgag cagctactgg atcaaatca agaaatcccg gcatcacaga 720
gaagtgggt ttaggacagc aggtgctgtt ccgagactca gtcctaaagg gttttttttc 780
ccactaagca aggggcccctg acctcgggat gagataacaa attgtaataa agtaacttct 840
cttttcttct aaaaaaaaaa aaaaaaaact cgag 874

<210> 192

<211> 2103

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (140)

<223> n equals a,t,g, or c

<400> 192

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agttttgtag caggactttn gggtgtaaat cgactattac caacctactg gtgggtgaga 180
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<210> 193

<211> 1317

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1314)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1315)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1316)

<223> n equals a,t,g, or c

<400> 193

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<210> 194

<211> 1252

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1231)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1240)

<223> n equals a,t,g, or c

<400> 194

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<210> 195

<211> 1688

<212> DNA

<213> Homo sapiens

<400> 195

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aaaaaaaa 1688

<210> 196

<211> 756

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (756)

<223> n equals a,t,g, or c

<400> 196

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acagctggga caaggatgtg taccctgagc ccccgcgccg cagcgccgtg cagcccaatc 180
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<210> 197

<211> 1471

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (458)

<223> n equals a,t,g, or c

<400> 197

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aaattattaa taaaataaaa aaaaaaaaaa a 1471

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<210> 198

<211> 692

<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (43)
<223> n equals a,t,g, or c

<400> 198
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<210> 199
<211> 1573
<212> DNA
<213> Homo sapiens

<400> 199
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<210> 200

<211> 2742

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (26)

<223> n equals a,t,g, or c

<400> 200

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<211> 1417

<212> DNA

<213> Homo sapiens

<400> 201

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<211> 1512

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (855)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1512)

<223> n equals a,t,g, or c

<400> 202

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<210> 203

<211> 419

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (384)

<223> n equals a,t,g, or c

<400> 203

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<210> 204

<211> 2833

<212> DNA

<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2822)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2831)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2832)

<223> n equals a,t,g, or c

<400> 204

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<211> 5830
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5584)
<223> n equals a,t,g, or c

<220>
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (5821)
<223> n equals a,t,g, or c
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gtacacacag gatccctgct gggcaccaac agctccacca tggggctggc ctggggacta 180
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<211> 755

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (368)

<223> n equals a,t,g, or c

<400> 206

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yccggccagt gactgcagtg tctgcagcgc tycgtgaac gggaacgtgg cggtagacac 660
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<210> 207

<211> 1996

<212> DNA

<213> Homo sapiens

<400> 207

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```

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tccctgctca gtgcttgggc tccacgggca ggggtcagag cactccctaa tttatgtgct 1740
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aggatggggc tcccagctcc tttctcctgt gaatggaggc agagacctcc aataaagtgc 1920
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<210> 208

<211> 1668

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1505)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1565)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1598)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1620)

<223> n equals a,t,g, or c

<400> 208

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ccaacatctg ggtcctgcct tcgacaccac cccaaggcct cctaccttgc gtgcctggag 180
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aggacgcctg ccagggtgac tctgggggcc cactctcctg ccctgtggag ggtctctggt 960
```

```
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ttctngaaga ctgcttcccg gcccgcttc ccagactnga tgagcacatt ttttttgccn 1620
tttccctgtg tttttgggtt gggcaacttt ttggaagttt gaggagaa 1668
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<210> 209

<211> 2250

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (23)

<223> n equals a,t,g, or c

<400> 209

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ggaattcgcg gccgcgtcga cattcgccgc cgcagcagcc gccgcccccg ggagccgccc 120
ggaccctcgc gtgcgtcgcc cgcgcgcgc ccagatcccc gcaccatgcc gtccggagaag 180
accttcaagc agcgcgcgac cttcgaacaa agagtagaag atgtccgact tattcgagag 240
cagcatccaa ccaaaatccc ggtgataata gaacgataca agggtgagaa gcagcttcct 300
gttctggata aaacaaagtt ccttgtagct gaccatgtca acatgagtga gctcatcaag 360
ataattagaa ggcgcttaca gctcaatgct aatcaggcct tcttctgtt ggtgaacgga 420
cacagcatgg tcagcgtctc cacaccaatc tcagagggtg atgagagtga gaaagatgaa 480
gatggattcc tgtacatggt ctatgcctcc caggagagct tcgggatgaa attgtcagt 540
taaaaccaga aaaaatgcat ctctctctaga attgtttaa cccttaccaa ggaaaaaaaa 600
ggggtgttac caactgagat cgatcagttc atccaatcac agatcatgaa acagtgtgt 660
tcccacctag gagtgttagg aagtgtgtt tgtgtttcaa gcagaaaaac tgagctccaa 720
gtgagcacat tcagctttgg aaactatatt atttaagtta ggctagcttg ttttcaaatt 780
ttaaagttt aaaaataaaa tactttgcat tctaagttgc caataaaata gaccttcaag 840
ttattttaat gctcttttct cactaatagg aacttgaat tccagcagta atttaaaggc 900
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cttccggctt aaagctgtgg atgatccacg tttttgttt ttttaagtta aatgtgtaac 1500
tcagtattac tgaaaaggta cccacattt gaatagtagt tatcactctt aggtcagaca 1560
gccatcagaa ttctcccaca ccaagtgcag gtcagttgtg gagaaaaacat agcaaaaaga 1620
```

```

gccgtacgct ctttacagat actaatgtca agagttaaac ctccctcaggt tcaacctgtg 1680
ataaaagact agtgcttccc agtacttgca tgggggttcac tatttatagt tttcttgga 1740
gtatcacagg aaaatcacia ttacaccact ttagacccta tgtgtagcag gtcacaactt 1800
acccttgtgt gtttagatgt gtatgaaata cctgtatacg ttagtgaaag ctgtttactg 1860
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gaaaaaaaaa aacatgctga ggggtgacct atatcccatg tgagtgggtca ctttatttat 2160
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa

```

<210> 210

<211> 838

<212> DNA

<213> Homo sapiens

<400> 210

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ggcggggccta cgtgctccgc ccgctgtgag cctgtccggc ccccgccgcg tccggagcaa 60
cccgcgagct tacaccggct tctctctgtc ctacgcccgc gcgcccgcct cgcggtcatg 120
ctggggcgccg ctctccgccc ctgctgtgtg gccgcaacca cccgggcccga ccctcgaggc 180
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aagccagata tagatgcctg ggaattgctt aaagggataa acacacttgt tacctatgat 360
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tttgctagta cagttcgtat cctagagggt gtttaaggaca aagcaggacc tcataaggaa 480
atctacccct atgtcatcca ggaacttaga ccaactttaa atgaactggg aatctccact 540
ccggaggaac tgggccttga caaagtgtaa accgcatgga tgggcttccc caaggattta 600
ttgacattgc tacttgagtg tgaacagtta cctggaaata ctgatgataa catattacct 660
tatttgaaac agttttcctt tattgagtac caagccatgt aatggtaact tggactttaa 720
taaaagggaa atgagtttga actgaaaaaa aaaaaaaaaa aaactcatac agactgaagc 780
gcggtgatta aataatgaaa gagttcgacg cggccgggaa tttaggaggt aaatatcc 838

```

<210> 211

<211> 1213

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1206)

<223> n equals a,t,g, or c

<400> 211

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gcccacgcgt ccggcaggaa ccgcggtgctc tggacaagag ggggtgcggtg gatactgacc 60
tttgctccgg cctcgctcgtg aagacacagc gcatctcccc gctgtaggct tcctcccaca 120
gaacccggtt cgggcctcag agcgtctggt gagatgctgt tgcgctgct gctgctgcta 180
cccatgtgct gggccgtgga ggtcaagagg ccccggggag tctccctcac caatcatcac 240
ttctacgatg agtccaagcc ttccacctgc ctggacggtt cggccaccat cccatttgat 300
caggtaaacg atgactattg cgactgcaaa gatggctctg acgagccagg cacggctgcc 360
tgtcctaatt gcagcttcca ctgcaccaac actggctata agcccctgta tatccctccc 420

```

```
aaccgggtca acgatggtgt ttgtgactgc tgcgatggaa cagacgagta caacagcggc 480
gtcatctgtg agaacacctg caaagagaag ggccgtaagg agagagagtc cctgcagcag 540
atggccgagg tcacccgcga agggttccgt ctgaagaaga tccttattga ggactggaag 600
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ccagccctgt ccctgccacc cctcctagtg gggactagtg aatgacttga cctgtgacct 1140
caatacaata aatgtgatcc cccacccaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1200
aaaaaaaaaa aaa 1213
```

<210> 212

<211> 969

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (922)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (955)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (958)

<223> n equals a,t,g, or c

<400> 212

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gttgatgta aaagctaagg aaaccttttc ttttggaaga tcagtataaa catgctgctt 180
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gtgttgctga agttttcgcc cttggattgc tggggtgata ttggtgacaa actctgtagg 360
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tgacttgatt tgttataagt ttggaaggtt atagtttggt cacattcttc attgatcaca 480
cttttaggga ttcttgaaga aaagggaagc aaaacataca cacacacccc caccatct 540
aacagcgtat tcaagcagat tccacgaatc ctcgcccgag gtttaataaa ggcaggaaag 600
ttcccttccc tgctcacaca caacgaaaac atggtggcca aagtggatga ggtgaagtcc 660
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atgacagacg atgagcttgt gtataacatt cacctggctg tcaacttctt ggtgtcattg 780
ctcaagaaaa actggcagaa tgtccgggcc ttatatatca agagcaccat gggcaagccc 840
cagcgccat attaaggcac atttgaataa attctattac cagttaaaaa aaaaaaaaaa 900
```


aaaaaaaaa aaaaaaaaaa anaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaanccncg 960
ggggggggg 969

<210> 213

<211> 1694

<212> DNA

<213> Homo sapiens

<400> 213

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gcatggcca agtggtcggg gctgaacgtg gcggctcctg agaaccgag ccctttccac 180
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tggaagatca tttatgttg ctcggctgag agtgaggaaat ttgatcagat cctagactcg 300
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aaccatccc tcattcccaga gactgatgcc gtgggtgtga ctgtggctct catcacctgc 420
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cctgagctgc gtgagaacct gccatgaag ccagatttct cccagctcca gcggaacatc 540
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cctatcaagg gcttggggct ccctggctgc atccctggcc tcctccctga gaactccatg 720
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ctctgtgccc tggccccctt gctgccatgt ggatgctgtg gtgattgctg tttgtatatt 1620
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aaaaaaaaa aaaa 1694

<210> 214

<211> 1210

<212> DNA

<213> Homo sapiens

<400> 214

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tggttaccat tatccccaac ttcagtctgg acaagatcta cctcatcggt ggggacctgg 180
ggccttttaa ccctggttta ccctggaag tgccctgtg gctggcgatt aacctgaaac 240
aaagacagaa atgtcgctg ctccctccag agtgatgga tgtagaaaag ttggagaaga 300
tgagggatca tgaacgaaag gaagaaactt ttacccaat gccagccct tactacatgg 360

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gctttgtgag acagcaggag gcacatgcca agctggataa cttgaccttg atggagatca 540
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<210> 215

<211> 1776

<212> DNA

<213> Homo sapiens

<400> 215

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gtcgggcttc ctgggcggct gaggtctctc gccttggcgg gcgctggtcg cttttgcatt 180
ttagggcttg aagcggcgac gcgaaagcat ttgccggcga ggaaccactg tgggtctctc 240
gactcctctc cgcagctgtg gcccgaaacc gatttcagga atccgccaag gaaggcgtct 300
aaggccagct tagactttaa gcgttacgta accgatcgga gattggtga gaccctggcg 360
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1776

<210> 216

<211> 1418

<212> DNA

<213> Homo sapiens

<400> 216

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<210> 217

<211> 2200

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2188)

<223> n equals a,t,g, or c

<400> 217

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<210> 218

<211> 1853

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (890)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1794)

<223> n equals a,t,g, or c

<400> 218

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tggtgggcgc cgtgaagagc cttcaggcgc tggcgaggt catcgaggct gaacttcggt 180
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gcccccaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 1853
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<210> 219

<211> 1093

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1090)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1091)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1092)

<223> n equals a,t,g, or c

<400> 219

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<210> 220

<211> 2155

<212> DNA

<213> Homo sapiens

<400> 220

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<210> 221

<211> 1264

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (17)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (22)

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<220>

<221> misc feature

<222> (125)

<223> n equals a,t,g, or c

<400> 221

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<210> 222

<211> 2085

<212> DNA

<213> Homo sapiens

<400> 222

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<210> 223

<211> 2921

<212> DNA

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<221> misc feature

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<223> n equals a,t,g, or c

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<221> misc feature

<222> (2921)

<223> n equals a,t,g, or c

<400> 223

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<211> 4395

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<213> Homo sapiens

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<220>

<221> misc feature

<222> (4382)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4391)

<223> n equals a,t,g, or c

<400> 224

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<210> 225

<211> 3035

<212> DNA

<213> Homo sapiens

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<222> (2911)

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<220>

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<222> (2959)

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<211> 1511

<212> DNA

<213> Homo sapiens

<400> 226

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<210> 227

<211> 2239

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (2238)

<223> n equals a,t,g, or c

<400> 227

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gtcccccaat cccccctnt
2239

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<210> 228

<211> 2346

<212> DNA

<213> Homo sapiens

<400> 228

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tccaacacct acaacaggca gaactgggag gatgcggact tccccattct gtgccagaca 180
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ctgctcaaac tggcccgagc cacaccctac taaaaaggga atcgaccca catttgctoc 600
ttctgggtga aaggagagtg taagagagga gaggaatgtc catacagaca tgagaagcct 660
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gatcctgtag ctgacaagct tctaaagcgg gcttcaacaa tgctctggct ggaccacca 780
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gccaaactact tcaacttgcc cccaagtggc cctccagctg tggatgaacat tgctctgcc 1200
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<210> 229

<211> 2246

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2235)

<223> n equals a,t,g, or c

<400> 229

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ggctgtgcct tctgaagcag tatctattca caatgaagtt gcagtcctcc gaattccagt 180
cacttttcac agaaggactg aagagtctga cagaattatt tgtcaagag aatcacgaat 240
taagaatagc aggaggagca gtgagggatt tattaatatg agtaaagcct caggatatag 300
attttgccac cactgctacc cctactcaa tgaaggagat gtttcagtcg gctgggattc 360
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attttgagat tactacacta cggattgatg tcaccactga tggaagacat gctgaggtag 480
aatttacaac tgactggcag aaagatgcgg aacgcagaga tctcactata aattctatgt 540
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tattcaaagk acmagatgat gtcacaaat tggawttgag gttgaagatc gcgaaagagg 1020
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```



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gttcagaccc attgaaaccc tatcaagact tcattataga ttctagggaa cctgatgcac 1140
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cagtggtoaca ttccctccatt tctgttaagt ggccatgaca tcagaaaagt gggcatttct 1260
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<210> 230

<211> 2002

<212> DNA

<213> Homo sapiens

<400> 230

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gatatatttt ctaataaagg actttgtctc gcaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1980
aaaaaaaaaa aaaaaaaaaa aa                                     2002

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<210> 231

<211> 994

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (394)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (853)

<223> n equals a,t,g, or c

<400> 231

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gccgagggcct gggttacaag cagcaagtgc gcggttgggg ccactgcgag gccgttttag 180
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ccaataccat tgactataaa agctattttt gaaagattca agaacaggaa aaagagatat 480
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tttgagcaag ctgttgcaag aggatTTTTT aactatattg aaaaactgaa gtatgaacac 720
cacctgaaag aatcattgaa gcaaatgaat gttggtgaag atttagaaaa tgaagatttt 780
gacagtcgta gatacaaat tttggatgat gatggatcca tttctcctat tgaggagtca 840
acgtaagtgg aantcatatg aaatactttg gtaatagggt ataaattaaa tttctatgtt 900
aattgcttca tattttgcct ttaatatagt tatacttaaa taatgaacaa agatacagag 960
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<210> 232

<211> 486

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature
<222> (49)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (440)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (485)
<223> n equals a,t,g, or c

<400> 232
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cgacccacgc gtccgggaac agccttctcc tgccctcctc gcacctggac aactcaactc 120
ctgccaaagat gtcctgccag cagaaccagc agcagtgcca acccccaccc aagtgtccct 180
cacccaagtg tcccccaaag agcccagtac agtgtctgcc tccagcttcc tctggctgtg 240
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ggcgrggggt ctggstgckg cayggttctg ggggctgctg ctgatccaga tcctgatgct 420
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gaagnc 486

<210> 233
<211> 2081
<212> DNA
<213> Homo sapiens

<400> 233
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```

<210> 234

<211> 516

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (490)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (498)

<223> n equals a,t,g, or c

<400> 234

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gagaggggtg gaagatgtct atggatgtga cattcctggg gacgggtgca gcatacccat 120
ctccaaccog ggggtgcctct gctgtggtcc ttcggtgtga aggcgagtsc tggctctttg 180
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tccattatgt ggttcatgaa ctggttccta cagcagatca atgtcctgca gaagggaacta 480
aaagaatttn cgcattgtnaa tagagcagac agtcct 516
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<210> 235

<211> 1129

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (807)

<223> n equals a,t,g, or c

<400> 235
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gagaggagg gacgaccag atcttttgag agctgagggt tgagggcatt gagccaacac 180
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ttccagatat cagactgttc cctgttcaca gcacctcag ggtcttaagg tcttcatgcc 1020
ctatcacaaa tacctctttt atctgtccac cctcacaga ctaggacctt caaataaagc 1080
tgttttatat caaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1129

<210> 236

<211> 1045

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (973)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1001)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1014)

<223> n equals a,t,g, or c

<400> 236

atcctcaaa gacgctcagg ctccgtgtgg ctgcgcaacc tgcaactggg cctetteggc 60
acagcactgg gcctggtggg gctctggtgg gctgagggtg ccgccgtggc caccogtgg 120
ttcttttttg ggtacacacc tgetgtctgg ggcgtggtgc tcaaccaggc cttcgcggg 180
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ggtgcagyc aagccatagc ctctgcctct gcctccgcct ccggggccctg cgttcaccag 420
cagcctccc ggcagccacc accaccgcag ctgtcttccc accgtggaga cctcatcac 480

gagccctttc tgccaaagtc agtgctggtg aagtragggc tggcagcaat ggggggacac 540
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tggaacaaac tccgagtctt aggaatgacg atgcctactg tggggtagtg ccatagttgg 960
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aatgcttctg gagccaggaa aggca 1045

<210> 237

<211> 690

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (666)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (678)

<223> n equals a,t,g, or c

<400> 237

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aagctgtggc tctgactctg caggaggaca gagcatccct gacgctttca ggggggccct 120
cggcactggc ctttgacctc tccaaggtag caggcccaga ggcagccccc aggctgyggg 180
cgctgacact gggcctggca aaacgcgtgt ggagcctgga gcggcgactg gcagctgcag 240
aagagacagc tgtcagcccg aggaagagcc cccggcctgc agggcctcag ctcttcttac 300
cagaccaga tccccagaga ggtggccctg gacctggagt caggaggcgg tgtccaggag 360
agtcgctcat caaccccggt ttcaagagta agaaaccagc tgggtggcgtg gacttcgatg 420
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agtcttttag gcccccata gagaccccc gccaccacct ccacctgcct gtcctgggcc 540
aggactaaca cggctcctca aattccttcc ctgtcaaata aacagctccc ttggttgga 600
aaaaaaaaa aaaaaaaaaa agtttttttt aattttaagg cgggcccagg ttttttttcc 660
tttttngttg aagggttnat ttttttagttt 690

<210> 238

<211> 1873

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (568)

<223> n equals a,t,g, or c

<400> 238

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ccccagtatg cgtggctgaa agagctgggg ctccgcgagg aaaacgaggg cgtgtataat 180
ggaagctggg gaggcgggg agaggttatt acgacctatt gccctgctaa caacgagcca 240
atagcaagag tccgacagcg cagtgtggca gactatgaag aaactgtaaa gaaagcaaga 300
gaagcatgga aaatctgggc agatattcct gctccaaaac gaggagaaat agtaagacag 360
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gggaaaatct tagtggaagg tgtgggtgaa gttcargagt atgtggatat ctgtgactat 480
gctgktggtt tatcaaggat gattggagga cctatcttgc cttctgaaag atctggccat 540
gcactgattg agcagtggaa tcccgatgct ctggttgtaa tcatcacggc attcaatttc 600
cctgtggcag tgtatggtg gaacacgcca tcgccatgat ctgtggaaat gtctgcctct 660
ggaaaggagc tccaaacct tccctcatta gtgtggctgt cacaagata atagccaagg 720
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tttgagaaag acaaaagaaa ttaaagtttt cctgaataa atgcattatt atgactgtga 1740
cagtactaa tccccctatg accccaaagc cctgattaaa tcaagagatt ctttttttaa 1800
aaatcaaaat aaaattgtta caacatagcc atagttacta aaagatgagt taggtggatt 1860
tttattatgg tca 1873
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<210> 239

<211> 905

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (873)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (874)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (897)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (898)

<223> n equals a,t,g, or c

<400> 239

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tgcggtcccc cttctaggtc gacccacgcg tccggtgggg ccccgggcgg cgttgaccat 60
gacccagcag ggcgcggcgc tgcagaacta caacaacgag ctggtcaagt gcatagagga 120
gctgtgccag aagcgggagg agctgtgccg gcagatccag gaggaggagg acgagaagca 180
gcggctgcag aatgaggtga ggcagctgac agagaagctg gccgcgtca acgagaacct 240
ggcacgcaag attgcctctc gcaacgagtt cgaccggacc atcgcgga cggaggccgc 300
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agaccacggg cagggcctgc ctccgtgtgc ccctcagctc agcccagca agtgtgtgct 480
cagagcatct ttgttcttca cggcagcagc taccttcctt cactgtctca ggtgccgaga 540
ggggcaggtg ccagcctcca ctggcatcag tgacaagccc agggcacagc ccaccgggg 600
gtcctcgctt catgctcaca caggctatgg ggatgggtgg ctccagggtca gctctgcaag 660
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ggaggacagg ggttctcctt caccacagaa cccaaacctc aggtctcacc cctgtggcct 840
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ggggg                                           905
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<210> 240

<211> 1484

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1457)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1471)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1480)

<223> n equals a,t,g, or c

<400> 240

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agatatataca atatacagat atacaaataa gggatgaagat ggagggaatc tgataaagac 180
atcttataaaa ttcaacagac acaaaagaat ttgatctccc ataagcaact gtgaaattac 240
aataacagat cctgggaagt tctacaattc taattcagtt ttttcaaggg ggaacatggc 300
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aaaggtgttc agtttcatcc ttgttaccac cgctctgaya atgggcaggg aaatttcggc 360
gctcgaggac tgtgcccagg agcagatgcy gctcagagcc cagggtgcgc tgcttgagac 420
ccgggtcaaa cagcaacagg tcaagatcaa gcagcttttg caggagaatg aagtcagatt 480
ccttgataaa ggagatgaga atactgtcgt tgatcttgga agcaagaggc agtatgcaga 540
ttgttcagag attttcaatg atgggtataa gctcagtgga ttttcaaaa tcaaacctct 600
ccagagccca gcagaatttt ctgtttattg tgacatgtcc gatggaggag gatggactgt 660
aattcagaga cgatctgatg gcagtgaaaa ctttaacaga ggatggaaa actatgaaaa 720
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gaatatggg gaattattctg gaacagctgg agattccctt gcggggaatt ttcacctga 960
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caattcagct ttgtttaaag tgatttgaaa aatactcatt ctgaacatat ccattgcgcaa 1320
tcatgataac tgtgttgagt agtgcctttc attctcttca ctgtcctttg ttacttaatg 1380
tgctttcagt acagcagata tgcaatatc accaaataaa tgtagactgt gtttaawaaa 1440
aaacaacaaa tatgaanaaa aaaaaaaaaa nggggggctn tttt 1484

<210> 241

<211> 1521

<212> DNA

<213> Homo sapiens

<400> 241

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ggtttgtgtg tttctgtttt gtttctctcc ccctgcaggg ctgtttkcg ggtgggggtg 180
gggggttcgt atgtcggatg acgattcag ggcagcacc agctcctcct catcttcgtc 240
ttccaaccag caaacagaga aagaacaaa caccaccaag aagaaggaga gtaaagtcag 300
catgagcaaa aactccaaac tcctctccac cagcgccaag agaattcaga aggagctggc 360
ggacatcact ttagaccctc cacctaattg cagtgtctgt cccaaaggcg ataacatcta 420
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aagaatctat cattgtaata ttaacagtca aggtgttatt tgcttgga caattgaaaga 600
taattggagt ccagcactaa ccatttctaa agtcctcctt tctatctgct cacttcttac 660
agactgtaat cctgccgacc ccttggtggg aagtattgcc actcagtata tgaccaacag 720
agcagaacat gacagaatgg ccagacagt gaccaagaga tacgctacat aaattgggggt 780
ttcacaattc ttacattatt tgtctgtcac agaagagagc tgcttatgat tttgaagggg 840
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tggaatagga gttgctcagt ggattggttc tatgttgtgg actacttaag tctgcatttg 1440

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ttactgtgct aataaacaat attaaaaacc acctaatataa cactgctgtg ttcatttact 1500
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<210> 242

<211> 1144

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1093)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1105)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1106)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1139)

<223> n equals a,t,g, or c

<400> 242

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tcccagagga gcaggaatta gaagcctatg tagatgatat agatattgat agtgatttca 180
gaaaggatga tttttattac ttgtctcaag aagacaaaaga gagacagaag cgtgagcatg 240
aagaatccaa gaggtgtgct caagaattaa aatctgtgct gggattttaa gcttcagagg 300
cagaaaggca gaagtggag caacttctat ttagtgatca tgtgtttctt catatagctt 360
taaaattatg ctattgacat tatgggaaag atttatcaat gagagaaatg tgtctctttt 420
tcagccgtgt tgaatcctt gtctctctgta gaccagtggt aacccataag taattcagaa 480
ccatcaatga attcagatat gggaaaagtc agtaaaaatg atactgaaga ggaaagtaat 540
aaatccgcca caacagacaa tgaataaagt aggactgagt atttatgtga aaactctcta 600
gaaggtaaaa ataaagataa ttcttcaaat gaagtcttcc cccaaggagc agaagaaaga 660
atgtgttacc aatgtgagag tgaagatgaa ccacaagcag atggaagtgg tctgaccact 720
gcccctccaa ctcccaggga ctccattacag ccctccatta agcagaggct ggcacggcta 780
cagctgtcac cagattttac ctccactgct ggccttgctg cagaagtggc tgctagatct 840
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gaagaaaata aaaatgagat agaagaaaag taagaaccaa gattcatatg aagtgatatt 960
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cccg                                     1144

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<210> 243

<211> 934
<212> DNA
<213> Homo sapiens

<400> 243
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cccgaacacc atcatgtgga gacatttgca attttcctcc taaaattgcc catgggcatt 180
ataaacaatc tagttcatac agctttttca aagaagagat tatatatgaa tgtgataaag 240
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cccctcaatg taaagctctg tgtcggaaac cagaattagt gaatggaagg ttgtctgtgg 360
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agtgtctccc aaaccagag gatgtgaaaa tggccctgga ggtatataag ctgtctctgg 600
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tataattttt ctcaaaagaa ggaggaaaag gtgtcttggc ggcttgccctc ttgcaattca 720
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<210> 244
<211> 915
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (210)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (243)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (244)
<223> n equals a,t,g, or c

<400> 244
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ccgcctgccc tgagacagga gcgtattctg aacccctgc tagaccgtgt caggaccgcc 120
gaccaccacc agctgcgctc actgactggc ctcatccgaa acctgtctcg gaacgctagg 180
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gtnnnggtga gaagtygccc ccagccgagg tgctggtcaa catcatagct gtgctcaaca 300
acctggtggt ggccagcccc atcgctgccc gagacctgct gtattttgac ggactccgaa 360
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catccagcct cctggccaac ctgtggcagt acaacaagct ccaccgtgac ttycgggcga 480

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gagaaggcta atgacggagg ggcccctcgc tggggcccct gtgtgcatct ttgagggtcc 660
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aaaaaaaaaa aaaac 915
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<210> 245

<211> 1276

<212> DNA

<213> Homo sapiens

<400> 245

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acaagatgaa gcaagatgcc tcaagaaatg ctgcctacac tgtggattgt gaagattatg 180
tgcatgtggt agaatttaat ccttttgaga atggggattc aggaaacctt attgcatatg 240
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aaggcattca gtataaaaaca cttcgaacat ttcaccatgg agtcagggtt gatggcatag 360
cttgaggccc agagactaga cttgattcat tgcctccagt aatcaaatat tgtacttcag 420
ctgctgatat gaaaattaga ttatttactt cagatcttca ggataaaaat gaatataagg 480
ttttagaggg ccataccgat ttcattaatg gtttggtgtt tgatcccaa gaaggccaag 540
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cagctcattt tgttcttcat tctcctggca tgagtgtgtg ctggcatcct gaggagactt 660
ttaagctaag ggttcagag aagaatggaa caatccggtt ttatgatctt ttggcccaac 720
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<210> 246

<211> 3366

<212> DNA

<213> Homo sapiens

<400> 246

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atttgg 3366

<210> 247
<211> 2148
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1259)
<223> n equals a,t,g, or c

<400> 247
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cgtggcgcca gcggaggcag gttgmtgtgt ttgtgcttcc ttctacagcc aatatgaaaa 180
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aaaaagaaga tacctattaa aaaaaaaaaa aaaaaaaaaa aaaaaaaa 2148

<210> 248
<211> 2225
<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> {14}

<223> n equals a,t,g, or c

<400> 248

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tcaggggcag ctgcttcagt ttgtgctgac aatcatccag accagctgcg gggatcatctg 240
gccgtgcaca ttccctcttg gttggttgta tttccagatt ggatacatga tttccctgat 300
tgctctcttc acaaaactct acattcagac ctacaacaag aaaggggcct cccgaaggaa 360
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cttttcaccc ctggaaaaca atgtgaagcc aaggaagctg cggaaggatt gaagtcaaag 480
aattgaaacc ctccaaacca cgtcatctga ttgtaagcac aatatgagtt gtgcccacat 540
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cattcaatag tgtgctgtca aagtgtgctt agctcacctg gatataccta cattgttaaa 2160
tgtctaaaaa gtaatcatta aaacattttt gattaaaaaa aaaaaaaaaa aaaaaaaaaa 2220
aaaaa
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<210> 249

<211> 1204

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1197)

<223> n equals a,t,g, or c

<400> 249

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agtaagaact ctgctagaga ggaaatggct gcttcatcat catcctcctc agctgggtgg 180
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ttcctctgcg aatctgtttt tagctatcaa gtggcatcca cgcttaaaca ggtgaaacat 360
gatcagcaag ttgctcggat ggaaaaacta gctgggttgg tagaagagct ggaggtgac 420
gagtgccggg ttaagcccat cgagcagctg ctgggattca cccctcttc aggttgatac 480
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cttggtttct ctgtatctat tcacaggcaa caaatactta tatgtgtgat ctttcaggga 660
atgttttgtt tatttgtttt taaaagtatt gggaatcaga ttaagacaat cagtttcaga 720
gaaccaggag gtttgggtt aagagatact caaaaatttt cacaagccaa gtagggcata 780
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aaaa 1204
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<210> 250

<211> 1314

<212> DNA

<213> Homo sapiens

<400> 250

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ccttcgcttg ctccagagtc ttggaaaaac cactgaactg gctacttttt aattactatt 180
tgacaacctg ccttcagctc tcagttaata agcaccgaca tatgtttgta aaacaagttg 240
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tcattgttgg ataccaaaac attgatgatt attatactga tgccagtccg agtcctagac 360
tgaagtcagt aggaattcca gtattgtgtc taaattctgt ggatgatgtt ttctcacca 420
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cacaaatttt aactgttgta tataaagcaa ataagccagc agatgggtga agagggtccag 720
aatgatatgc aaaaactact ttttagagaa acaaaacaac tttgtagcaa caaattaat 780
atagtattag attgttactt acgtagattt ttttttact atgccttac aagtacatcc 840
ttaaacaaag tagtatgtac atgaaattgc acttaacca aactatttg taaaacaat 900
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```

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acaacgtgct aaatctttta tgtattctaa ctttaaaaga caagtgcac aaagttagac 1140
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taatgattat aattttacatg cttattttta aaatagtata tgtggacaca tatatatcat 1260
tatattaaaa taaattctac catttttaaat tggaaaaaaa aaaaaaaaaa aaaa 1314

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<210> 251

<211> 1159

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1132)

<223> n equals a,t,g, or c

<400> 251

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ggatggtctc gatctccagg atggtctcga tctcctgacg tcgtgatcca ccgcctcgg 180
cctcccaaaa tgctgggatt acaggtgtga gccactgtgc ccggccaaaa gaacagaaat 240
tattttatcc tgaagtaagc tgtttatatt tgggattata ctgaacctat ttgtccaata 300
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attttggcag aatcaatggt ggatttggct ttctgtccc ttcccatgc cagccccca 480
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<210> 252

<211> 2488

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (64)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2334)

<223> n equals a,t,g, or c

<400> 252

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gaacactttt tgatcaggtc cttgaattcc tttgtagtcc tgacgatgac tcccgcact 180
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```

<210> 253
<211> 1554
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (81)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1496)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1523)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1535)
<223> n equals a,t,g, or c

<400> 253
actggnaatc cactactatt tggaaagctg gtccgcctgc aggtaccggt ccggaattcc 60
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cttcgcggct gctcaagatg aaccgactct tcgggaaagc gaaacccaag gctccgccgc 180
ccagcctgac tgactgcatt ggcacggtgg acagtagagc agaatccatt gacaagaaga 240
tttctcgatt ggatgctgag ctagtgaagt ataaggatca gatcaagaag atgagagagg 300
gtcctgc aaa gaatatggtc aagcagaaaag ccttgcgagt tttaaagcaa aagaggatgt 360
atgagcagca gcgggacaat cttgcccaac agtcattcaa catggaacaa gccaattata 420
ccatccagtc tttgaaggac accaagacca cggttgatgc tatgaaactg ggagtaaagg 480
aaatgaagaa ggcatacaag caagtgaaga tcgaccagat tgaggattta caagaccagc 540
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ccccagaact ggatgaagat gatttagaag cagagttgga tgcactaggt gatgagcttc 660
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gacctgataa attgataaga caaagatgag attattgggg ctgttcatat tatgattcag 1200
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<210> 254

<211> 1506

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (43)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1492)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1501)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1506)

<223> n equals a,t,g, or c

<400> 254

ctggaagaat tcgcgtggca ggagaggcgg ggcaattttg ctnagctttc tcgcgggctt 60
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ctttgtagct gagaacggct tgtttattgc tacaagact ctattgacat tggtagcttc 180
agcggcagca gcttcttacg gtataaagct gttgcttcct gaagaggcta caagcatcct 240
tccctaggac tgctgtaagc tttgagcctc tagcaggaga catgcctcgg ggacgaaaga 300
gtcggcgccg ccgtaatgcg agagccgcag aagagaaccg caacaatcgc aaaatccagg 360
cctcagaggc ctccgagacc cctatggccg cctctgtggt agcgagcacc cccgaagacg 420
acctgagcgg ccccgaggaa gacccgagca ctccagagga ggcctctacc acccctgaag 480
aagcctcgag cactgccccaa gcacaaaagc cttcagtgc cggagcaat ttccagggca 540
ccaagaaaag tctcctgatg tctatattag cgctcatctt catcatgggc aacagcgcca 600
aggaagctct ggtctggaag gtgctgggga agttaggaat gcagcctgga cgtcagcaca 660
gcatcttttg agatccgaag aagatcgtca cagaagagtt tgtgcgcaga gggtaacctg 720
tttataaacc ggtgccccgt agcagtcagg tgaggtatga gttcttctg gggccccgag 780
cacacgtgga atcgagcaaa ctgaaagtca tgcattttgt ggcaagggtt cgtaaccgat 840
gctctaaaga ctggccttgt aattatgact gggattcgga cgatgatgca gaggttgagg 900
ctatcctcaa ttcagggtgct aggggttatt ccgcccctta agtagatctg aggcagacc 960
ttgggggtgt aaaagagagt cacaggtacc ccaaggagta gatgccaggg tcctaagttg 1020

```

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gttcaactgc gaaatagagt gtttgctttt gataatggaa aattgtattc gttttaaaat 1140
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tttgtgtctg ctgttgtgtg aagattgaca ttaccatga ttttccttag ttactgcaga 1440
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ncccg      1506

```

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<210> 255
<211> 654
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (632)
<223> n equals a,t,g, or c

```

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<400> 255
actcacnta ttggaaaagc tggtagcgcct gcagggtcccg gtccggaatt cccgggtcga 60
cccacgcgtc cgatctttcc gcgccggtga gtagcactct ctgagagctc caatttcac 120
cgtctgccat cggcgccatc ctgcaatcta agccacaatg gtgcgcatga atgtcctggc 180
agatgtcttc aagagtatca acaatgccga aaagagaggc aaacgccagg tgcttattag 240
gccgtgctcc aaagtcacgc tccggtttct cactgtgatg atgaagcatg gttacattgg 300
cgaatttgaa atcattgatg accacagagc tgggaaaatt gttgtgaacc tcacaggcag 360
gctaaacaag tgtgggggtga tcagccccag atttgacgtg caactcaaag acctggaaaa 420
atggcagaat aatctgcttc catcccgcca gtttggtttc attgtactga caacctcagc 480
tggtcatcat gaccatgaag aagcaagacg aaaacacaca ggagggaaaa tcctggggatt 540
ctttttctag ggatgtaata catatattta caaataaaat gcctcatgga caaaaaaaaa 600
aaaaaaaaa aaaaaagggg gsggtctag anggtccaag cttacgtacg cgtg      654

```

```

<210> 256
<211> 1992
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (558)
<223> n equals a,t,g, or c

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```

<400> 256
gctcgccata cacctgcgca acgccatgac ccccgcaag aaggaaacat accagtctgt 60
gtacaactgg cagtatgtgc actgcctctt cctgtggtgc cgggtcctga gcactgcggg 120

```

```

ccccagcgaa scctccagcc cttggtctac ccccttgccc aagtcacatc tggtgtatc 180
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ctgtctctcg ggagctcggg ggccttcac cgggtgctgc ctttcatcct ggagatgttc 300
cagcaggtcg acttcaacag gaagccaggg cgcatgagct ccaagcccat caacttctcc 360
gtgacccctga agctgtccaa tgtcaacctg caggagaagg cgtaccggga cggcctgggt 420
gagcagctgt acgacctcac cctggagtac ctgcacagcc aggcacactg catcggcttc 480
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gccaaactact gccggcangt gcagcagctg cttgggaagg ttcaggagaa ctccgcatac 600
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tgggagaagc tgaccggga agaggggaca cccytgacct tgtactacag ccactggcgc 720
aagctgcgtg accgggagat ccagctggag atcagtggca aagagcggct ggaagacctg 780
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caccggggag gatattcggc agcccgggca gtcgcagatc ggaggatgca cctgcaggat 1920
ccccttgagc ataagcgtct tcagactttt cccttccgag cggaggggagc ggcccgcgag 1980
ccccaagcgc tg

```

<210> 257

<211> 2273

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2271)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2273)

<223> n equals a,t,g, or c

<400> 257

```

ggcacgagct ggcggggaag gagaggtcag gcgctccggg ctgcccgcct aggtcggggc 60
cgcgcgctcc cccaccctaa gtcccacctc cggccgggca tgggtacccg ggcgggcctg 120

```

```
gctcggcctg ggcccaactca ctggtccaga agcagctgta ggtgcccacc aagcccatga 180
cgacgctgct ggccagggtc cagccctatt caggcaggag ctgctcttct ggggtatcgc 240
gatccactta aggatgaggc agacttggtg acaagctggt ctgagcagcg cttccagagc 300
cagaactgag ccagtgaga gcgcacctg gggcagcctg gattcctggg gtgtccccgg 360
cagccacaca cagccatgca ctacccaact gcactcctct tcctcatcct ggccaatggg 420
gcccaggcct ttgcacatcg cgcttcaat gcccagcggc tgacactggc caaggtggcc 480
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atgggagcgt atgtgtactt ctatcgggca cacaaaacac aggtcctgag ttcctacgtg 720
tacaacgatg aggatgacgt ctttgccggg gagccatttg tggcccagtt ctctttgccc 780
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gccggacccc tcccttccat cctcctctcc aaagaasaga ggtcaggaaa aacactggct 2100
gggacgctag aagggtcatg tgttaactat aatcacattt atggtttgga accatcacc 2160
caaggtaaaa aaaaaataaa aggtattccc aggtatgttt ggcaaaataa aataaaggta 2220
attaaaaacc taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaattttgcn ncn 2273
```

<210> 258

<211> 1504

<212> DNA

<213> Homo sapiens

<400> 258

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attctccata gatgatcttc tactgaaatg cctaaagaag tcacaggctg gcttctgttt 120
tattcaggga tttttttaaa aagtcaatca gaaaagggat actggagctt cttcatgtat 180
gtaacagcat attaaactgg agacagtgat gaatcagcta caaaggtaat attgtattaa 240
aatcatgttt aagatagctg cttttatgtg tattttatat tgcagtcttt tgtaaaaaca 300
tgctgggtga tgaaagatta gttttagaga gaaaatgttc atctgtgcag aggatgcatt 360
ttcttcatt aattctggaa aaaacgttca cagtatatata tatgggtatt tgcaaaagga 420
ctattaatag aaccttttga gatgaattaa tgtaagaata ttttttaaat aggotttact 480
```

```

tcaaattgca actttttttt tagatacaga gtggaaaaca gtgctaagtc atttggcacc 540
tccttacaaa tttttttcat ggtcacattt attaaatggt actacatttc tgaatttttg 600
aaaaatgtat ttatcatta aatggcatta ttttaaaggg tgaaaaactg acacagtcaa 660
ttcagaaaat ggactgaagt ctgaataagg tcattgcatt taaaaagcat ataactgtac 720
ttgactgatg agggagggtg tactttcatt gtatataggt cttatttcatt aaacagatat 780
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gtttgtttta tttactttca caataaactt ctgtgtagta aaaaaaaaaa aaaaaaaaaa 1500
aaaa
1504

```

<210> 259

<211> 1792

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (107)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (487)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1306)

<223> n equals a,t,g, or c

<400> 259

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aattcggcac gagctacatc gggggactcc tctcagcctt ctacctgaca ggagaagagg 60
tgttccgaat aaaggccatc aggtctggag agaagctcct gccggenttc aacaccccca 120
cggaatccc aaaggcggtg gtgagcttca aaagtgggaa ctggggcttg gccacagccg 180
gcagcagcag catcttggcg gagtttggat cctgcactt ggaattctta cactcactg 240
aactctctgg caaccaggtc ttcgctgaaa aggtcaggaa catccgcaag gtctcagga 300
agatcgaaaa gccctttggc ctctacccca acttctcag cccagttagt gggaactggg 360
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tggcgagggg gattcttggg ccacaagatg gggcacctgg cctgtttctc cgggggcatg 600
atcgcccttg gcccgaggat gccaaaggag aaaagagggc ccactaccga gagctcgag 660

```



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cccagatcac caagacgtgt cacgagtcac acgcccgcgc agacacccaaa cttggggcctg 720
aggcttcttg ttttaactccg gcagagagggc cgtggccacc cagctgagcg agagytacta 780
catcctccgg ccagaggtgg tggagagcta catgtacctg tggcgacaga cccacaaccc 840
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cgaaggcccc atctcggaac gacccccagc agatgtgtcg gacaagcaac ttcttttccct 1260
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acactgacct tatgttcaac tttgtgtcat ttacctata atttgaggag gggtttccct 1680
ttgggcctca gtgttacaaa ttactagtgc tattttcatt attattgtaa tggaaaaaatc 1740
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<210> 260

<211> 2048

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (66)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (67)

<223> n equals a,t,g, or c

<400> 260

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acccttagag gagggcgtgc gggggtctgt tttgcatgcg agccaccctc ctggctgctc 180
ctgcgggttc cctgtccagg aagaagcggg tggagttgga tgacaactta gataccgagc 240
gtcccgtcca gaaacgagct cgaagtgggc ccagcccag actgcccccc tgcctgttgc 300
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tgcccccgca caagcatgtg gctcggccca ctgaggtcct ggctggatcc cagctcctct 480
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aactcgac 2048
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<210> 261

<211> 1282

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1244)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1261)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1265)

<223> n equals a,t,g, or c

<400> 261

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cctatagcaa tggaactcag cgatgcaaat ctgcaaacac taacagaata tttaaagaaa 180
acacttgatc ctgacccctg catccgacgt ccagctgaga aatttcttga atctgttgaa 240
ggaaatcaga attatccact gttgcttttg acattactgg agaagtcca ggataatgtt 300
atcaaagtat gtgcttcagt aacattcaaa aactatatta aaaggaaactg gagaattgtt 360
gaagatgaac caaacaaaat ttgtgaagcc gatcgagtgg ccattaaagc caacatagtg 420
cacttgatgc ttagcagccc agagcaaatt cagaagcagt taagtgatgc aattagcatt 480
attggcagag aagattttcc acagaaatgg cctgacttgc tgacagaaat ggtgaatcgc 540
```

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tttcagagtg gagatttcca tgttattaat ggagtcctcc gtacagcaca ttcattat 600
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gatgcctttg ctttgccttt gactaatctt ttttaaggcca ctattgaact ctgcagtacc 720
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1282

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<210> 262

<211> 599

<212> DNA

<213> Homo sapiens

<400> 262

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ggggccggcc ctgggcctgc tgcaggcgcg gcgctgcgg accagagctt cctgtggaac 180
gttttccaga gggtcgataa agacaggagt ggagtatat cagacaccga gcttcagcaa 240
gctctctcca acggcacgtg gactcccttt aatccagtga ctgtcaggtc gatcatatcc 300
atgtttgacc gtgagaacaa ggccggcgctg aacttcagcg agttcacggg tgtgtggaag 360
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gataagaacg agctgaagca ggcctctma gtttcggcta ccggctctct kaccagttcc 480
acgacatcct cattcgaaag kttgacaggg argggacggg gcaratcgsc ttcgacgast 540
taatccaagg ctggcatggc ctgcagaggt ttacggatat attcaaagg ttcggcacg 599

```

<210> 263

<211> 1261

<212> DNA

<213> Homo sapiens

<400> 263

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ggcacgaggt tgttcggagc gggcgagcgg agttagcagg gctttactgc agagcgcgcc 60
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cagccatagc tacgtgcgtt cgctacgagg attgagcgtc tccaccagc aagtgggcaa 180
gaggcggcag gaagtgggta cgcaggggcg caaggcgcac agcctctaga cgaactcgtt 240
tccctccggc caacctctga agccgcgtcc tactttgaca gctgcagggc cgcggcctgg 300
tcttctgtgc ttcaccatct acataatgaa tcccagtatg aagcagaaac aagaagaaat 360
caaagagaat ataaagaata gttctgtccc aagaagaact ctgaagatga ttcagccttc 420
tgcactctgga tctctgttg gaagagaaaa tgagctgtcc gcaggcttgc ccaaaggaa 480
acatcggaat gaccacttaa catctacaac ttccagccct ggggttattg tcccagaatc 540
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agcacttaag gaaaatgaga aacttcataa agaaattgaa caaaaggaca atgaaattgc 720
ccgcctgaaa aaggagaata aagaactggc agaagtagca gaacatgtac agtatatggc 780
agagctaata gagagactga atggtgaacc tctggataat tttgaatcac tggataatca 840

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a 1261

<210> 264

<211> 1020

<212> DNA

<213> Homo sapiens

<400> 264

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tattccttcc tctttatctc acaatttttg tctccactaa gcaagaagta aactaact 180
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tcaacatttt gaaatgcaga gggatttggg acatgacgac atggaaaagg gcacttttaa 360
acacagctta ctcttcctca agtacagaga gtatatagtg aatcaaaact aactacagcc 420
attcttttta aagcccaagg gatggagcaa aggtgtaagg atgttacctg ttgttttaa 480
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aactgcca cactcaatt ttttaaaaag cgtgggccac attgctaaga attgtttaa 660
gcataactgt attttttgtt ttagggcctt attgatgttt tgccgttcca atgtatgcat 720
ttttttactc aataaacttg tcttaatttt agaactgtct gatgatctcg tactggaaag 780
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aaaacaaacc gtccaacagg tcccccaac cgcccacgcc acataaagaa cagacatatc 960
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<210> 265

<211> 571

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (557)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (565)

<223> n equals a,t,g, or c

<400> 265

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caagggcacg agcatcgggc catgcctttc ttggacatcc agaaaagggt cggccttaac 120

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atagatcgat ggttgacaat ccagagtggg gaacagccct acaagatggc tggtcgatgc 180
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aaagagtgcg agatagaata tgatgatttc gtagagtgtt tgcttcggca gaaaacgatg 300
agacgtgcag gtaccatcag gaagcagcgg gataagctga taaaggaagg aaagtacacc 360
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tctggagggt gattttcctg ttctctgttc tccactggaa aggttgttta cgacaaacct 480
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aaaatttggg ggggggnccc cgtancccat t 571

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<210> 266

<211> 1350

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (204)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1313)

<223> n equals a,t,g, or c

<400> 266

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ctgccgagct cagaggagac cccagacccc tcccgcagcc agagggcttg agcctgctca 180
gaggtgcttt aaagatgccg gagncccgcc tctgctgttg gcagctgtgt tgctgggcct 240
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tccaagctta acgtaagcgt gcatgggaag 1350

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<210> 267

<211> 1319

<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (7)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (61)
<223> n equals a,t,g, or c

<400> 267
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nccgctctag aactagtggg tccccggggc tgcaggaatt cggcacgaga gactccgcga 120
cctactgacc cggcgactga caggctccaa ctaccggga ctcagtatta gccttcgcct 180
cactggctcc tctgcacaag aggmggcttc cggagtagcc ctcggtgaag cccagacca 240
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tgatgtggcc cggatcagct ggtacctccg tgacatcatc actcgatacc aggagacctt 540
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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaagg ggggggggc 1319

<210> 268
<211> 3694
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (746)
<223> n equals a,t,g, or c

<400> 268
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gaggtgtggc ggagcctgtg cggccgcagc ctggcagaag aggtctgtcg caggacatc 120
ctgtgaacc tgcccagcta caaggccaag atacgtgctt ttcaacatgc cttcagcact 180

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aatgactgct ccaggaatgt ctacattaag aagaatggct ttactttaca tcgaaacccc 240
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catcgatgct tgggttccgt atgccaagat tctgatgttg gtctggaata tgagctggtc 3180
ataaggattt ttaaaaactt tctggtcatt tcaatatgct gccaaagggt agaaccactg 3240

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cttctgtcat actgagacag gctgttttaa ttacctggtt ttacatagga aagaagaaat 3600
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<210> 269

<211> 1242

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<220>

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<222> (46)

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<221> misc feature

<222> (460)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1233)

<223> n equals a,t,g, or c

<400> 269

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catccacctt taaggcccca gcgtccaagc ccgagaccgn ggctcctaac gatgccaacg 480
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cgactgtgac gaatgatcgc tcggcaccga tcattcgatg agaggacagc caaggactct 600
cccgggcctc tccggttctc ccttgcgga tggatgggcgc atcctgtctg ccacgtgctg 660

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<210> 270

<211> 2057

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2053)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2054)

<223> n equals a,t,g, or c

<400> 270

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aaggaacatc ataatggaaa tttcacagac cctcttcag tgaatgaaaa gaagaggagg 180
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agcattgtgg tgtctttttt actgctgctt gctgtgotta tagctacgta ttatgttgaa 360
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tatctgggtc cacatatagc ctacagttaca ttagctgctt atgaatgcaa ttcagttaat 540
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gctgaaccag atgatgaaga gtatcaggaa tttgaagaga tgctggaaca tgcagagtct 780
gcacaagact ttgcctcccg ggccaaactg gcagttcaaa aactagtaca gaaagttgga 840
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aaaaaaaaaa aannaaa 2057
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<210> 271

<211> 960

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (951)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (956)

<223> n equals a,t,g, or c

<400> 271

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tgccaggccc agcagccacc acagcgctcg ctctctcggc cctgaaatca tgcccctagg 180
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ctcagacctg atcccagccc cacctctgag caaggtccct ctgcagcaga acttcagga 300
caaccaattc caggggaagt ggtatgtggt aggcctggca gggaatgcaa ttctcagaga 360
agacaaagac ccgcaaaaga tgtatgccac catctatgag ctgaaagaag acaagagcta 420
caatgtcacc tccgtcctgt ttaggaaaaa gaagtgtgac tactggatca ggacttttgt 480
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gaaagtctct caaaacagg agtacttcaa gatcacctc tacgggagaa ccaaggagct 660
gacttcggaa ctaaaggaga acttcatccg cttctccaaa tctctgggcc tccctgaaaa 720
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ccagctgccg caccagcccg aacaccattg agggagctgg gagaccctcc ccacagtgcc 840
acccatgcag ctgctcccca ggccaccccg ctgatggagc cccaccttgt ctgctaaata 900
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<210> 272

<211> 1167

<212> DNA

<213> Homo sapiens

<400> 272

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cggcgggcggg aaatcggctg tgggagagag gctaggcctc tgaggaggcg aatccggcgg 120
gtatcagagc catcagaacc gccaccatga cgggtgggcaa gagcagcaag atgctgcagc 180
atattgatta caggatgagg tgcattcctgc aggacggccg gatcttcatt ggcaccttca 240
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agccaaagaa ctccaaacaa gcagaaaggg aagagaagcg agtcctcggg ctggtgctgc 360
tgcgagggga gaatctggtc tcaatgacag tagagggacc tcctcccaaa gatactggta 420
ttgctcgagt tccacttgct ggagctgccg gggggccagg gatcggcagg gctgctggca 480
gaggaatccc agctggggtt cccatgcccc aggtctcctgc aggaacttgc tggccagtcc 540
gtggggttgg cgggccatcc caacagggtg tgaccccaaa aggaagaggt actgttgca 600
ccgctgcagc tgctgccaca gccagtattg cgggggctcc aaccagtagc ccacctggcc 660
gtgggggtcc tccccacct atgggcccag gagcaccccc tcaggcatg atgggcccac 720
ctcctgggtat gagacctcct atgggtcccc caatggggat cccccctgga agagggactc 780
caatgggcat gccccctccg ggaatgcggc ctccctcccc tgggatgcga ggccttcttt 840
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tcttgcccct cctcagctcc ctgcctgttt cccgtaaggc tgtacatagt ccttttatct 1080
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aaaaactyrr gggggggccc ggtccca 1167

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<210> 273

<211> 2771

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (16)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (42)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (64)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2715)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2717)
<223> n equals a,t,g, or c

<400> 273
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taggccgtcg ctttcgggtt ctctcatcgc ttcgctcgtt gccaatgttt gaggagaagg 180
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agttgaatcc ttggcctgaa tatatttaca cacgtcttga gatgtataat atactaaaag 360
cagaacatga ttccattctg gcagaaaagg cagaaaaaga tagcaagcca attaaagtca 420
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cctgtggaat tagtcaagc ctggccgaca acaccgttat tgctaaagta aataatgttg 540
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tgaaaaagtt ttcaaattca attaagataa ctagaattgg attatggtgt aaaaataaaa 2700
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taagcgaat t 2771

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<210> 274

<211> 1889

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (57)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (87)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (113)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1676)

<223> n equals a,t,g, or c

<400> 274

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gttcggaaac ctatcgatta cacagtnctg gatgatgtgg gccatggtgt cangcatgga 120

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aatagaccag cctgcaggaa ctggcacact gtcgagaaca aatcctccta ctcagaaacc 180
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aagtcagcat agtccaggca ggacagcatc tttaaatcag agaccaagga cacacagtgg 360
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cattataaac tttttccatt cataaatata taagtgaacc aaaggttttt gtcctttcct 1800
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aaaaaaaaaa aaaaaataaa aaaaaataaa 1889

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<210> 275

<211> 604

<212> DNA

<213> Homo sapiens

<400> 275

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cacacagtgg aaagtgaaca agccagcgcc ttgcccagg ccccgaggg tggagcccgt 240
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cctggggctg ccacgtgttt aggaacaaa gtatgcgcta ctgtctgaaa acaataaag 540
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aaag 604

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<210> 276

<211> 1381

<212> DNA
<213> Homo sapiens

<220>
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<222> (1348)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1349)
<223> n equals a,t,g, or c

<220>
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<222> (1350)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1358)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1359)
<223> n equals a,t,g, or c

<400> 276
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c 1381

<210> 277

<211> 1149

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (680)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1088)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1098)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1140)

<223> n equals a,t,g, or c

<400> 277

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<210> 278

<211> 811

<212> DNA

<213> Homo sapiens

<400> 278

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```

<210> 279

<211> 1260

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (1249)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1252)

<223> n equals a,t,g, or c

<400> 279

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ccacttttyt tgacagtcca gcccacctcc tcttctgccc ggagaagctc cagggggtgc 180
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tgtgtgtgtc caatggtgga gaagaaaact tcggttcgct cccaggaccc cgggcagcgg 540
cgggtgctgg accgggctgc ccggcagcgt cgcatacaac ggcagctgga ggcctggag 600
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cagtttgatg acgatgcgga cactggaaag aaaaagaaga aaaccgagg tgatcatttt 720
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acaaaactgt gtcttatctg ccaggaaaga ccagcctcac tcctgggaac tgtctggcag 1140
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<210> 280

<211> 1668

<212> DNA

<213> Homo sapiens

<400> 280

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ttgattgtsa cagcaagatc aaataacaaa acgaagcata ttgaagaaga gaacttgatt 180
gacgaagact ttcaaatct aaaactgctg tcgacaggct tcaccaatct tggagcagaa 240
gggagcgtct ttctaaggt caggataacg gcctccagag acagccagat gcaaatccc 300
tattcaagcc acagcagcat gccccgcct gactattaga atcataagaa tgtggaacc 360
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aagtgagcac cagtaaagat ctggcctccg gggtttttct tccatctgac atctgccagc 480
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aagcttttac aaatgttatt agtgccttt tttatttcta atgccttgct ctcttaaaag 1560
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agtgcctttg ttagatggaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1668
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<210> 281

<211> 2328

<212> DNA

<213> Homo sapiens

<400> 281

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ccacagcagg tagcagctg gcccaaccatg gtggatatca acagccccga aagcctaacc 120
gaagcatata aactccgtgc agccagatta gtagaaattg ctgcaaaaaa ccttcaaaaa 180
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gaagtgattc acagaaaaag caaggaggta gcttggaaacc taacttctgt tgaccttggt 240
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<210> 282

<211> 956

<212> DNA

<213> Homo sapiens

<400> 282

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tgccgggctt ccgcccgcgc ttcctgagg agccgcacgt gccgtggag carcgcgcg 180
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<210> 283

<211> 1402

<212> DNA

<213> Homo sapiens

<220>

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<222> (26)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (88)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (97)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (131)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1344)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1355)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1394)

<223> n equals a,t,g, or c

<400> 283

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<210> 284

<211> 675

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (520)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (560)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (618)

<223> n equals a,t,g, or c

<400> 284

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<210> 285

<211> 1339

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1330)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1331)

<223> n equals a,t,g, or c

<400> 285

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<400> 286
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 <212> DNA
 <213> Homo sapiens

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 <222> (20)
 <223> n equals a,t,g, or c

<220>
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<222> (917)

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<400> 287

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<210> 288

<211> 3094

<212> DNA

<213> Homo sapiens

<400> 288

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<210> 289

<211> 1983

<212> DNA

<213> Homo sapiens

<400> 289

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<210> 290

<211> 1298

<212> DNA

<213> Homo sapiens

<220>

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<222> (1224)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1231)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1242)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1262)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1285)

<223> n equals a,t,g, or c

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<210> 291
<211> 2459
<212> DNA
<213> Homo sapiens

<220>
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<223> n equals a,t,g, or c

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<221> misc feature
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<222> (2392)
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<400> 291
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<210> 292
<211> 570
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (567)
<223> n equals a,t,g, or c

<400> 292
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<210> 293
<211> 2468
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2076)
<223> n equals a,t,g, or c

<400> 293
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<210> 294

<211> 1080

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1038)

<223> n equals a,t,g, or c

<400> 294

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caggccagca gacagtgggt tttgctggac acagtgggga tgtgatgtcc ctgtccctgg 180
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tttttccata aaggagccaa ttccaactct gwaaaaaaaa aaaaaaaaaa acttcgrggg 1020
ggggcccgta cccaattngc ctttaggggg gggtttaaat taatggcggg gttttaaaag 1080

<210> 295

<211> 2695

<212> DNA

<213> Homo sapiens

<400> 295

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tccatatata cagaaattag acaataata agtctttagt tcaacttaag catatctcaa 180
atgacttctc taaattttaa gttgatcatg ataggatcat aaaagacaga aaagacttaa 240
gtaatcttgt aatgacaatt atttccattt ttgctgaact aaaaatatat aacttcataa 300
atatgttact acagcttcca gatttaaaga aaaaagttt cccctactct caattaaaag 360
ttagaaccct ccacttttaa aattatacaa atatttcttt ttacattac acagaagcct 420
tctgtaccat ttacgaatt tctgtcttca taatataagt gaaaatactg tcatttcaat 480
tttctgcttt aaattgtttt taataagcat yccaaagtga tacagactta agcttttaat 540
caatcagtca ttcagttgat agacaaagtt agcgtatgct tatgctagga aacttggtga 600
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<210> 296

<211> 1394

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1238)

<223> n equals a,t,g, or c

<400> 296

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ggacaagtcc attgaagact atctcttgcc agacacgtgt ttccgcatgc aaatcaacca 180
tgccattgac atcatctgtg ggctcctgaa ggaaaggtgc ttccgaggta gctcctaccc 240
tgtgtgtgtg tccaaggtgg taaaggggtg ctctcagggc aagggcacca ccctcagagg 300
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gaattttcac atcccttgtc cagaattcat tcccctaaga gtaataataa ataattctta 1380
acaccaaaaa aaaa 1394
```

<210> 297

<211> 998

<212> DNA

<213> Homo sapiens

<400> 297

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tgcccgcat gaaattctc cgcragataa ttaaaactcg ggctcatcc gggcaaaatt 120
acattccttg tgacgactgc gcatgctcgg aaaggggacg caatcragat cccaacgcg 180
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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaa 998

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<210> 298

<211> 1666

<212> DNA

<213> Homo sapiens

<400> 298

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gctttkttga gagcgacatg ttttggaac acagatgtgc agattttgga atggctgctg 180
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ataactaagt ttattaaatt ctagaagat aaaaaaaaaa aaaaaa 1666

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<210> 299

<211> 2444
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (402)
<223> n equals a,t,g, or c

<400> 299
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<210> 300

<211> 1026

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1026)

<223> n equals a,t,g, or c

<400> 300

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<211> 830

<212> DNA

<213> Homo sapiens

<400> 301

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<211> 3300

<212> DNA

<213> Homo sapiens

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<220>

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<222> (3232)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3280)

<223> n equals a,t,g, or c

<400> 302

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<211> 475

<212> DNA

<213> Homo sapiens

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<220>

<221> misc feature

<222> (454)

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<210> 304
<211> 2902
<212> DNA
<213> Homo sapiens

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<222> (2888)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2891)
<223> n equals a,t,g, or c

<400> 304
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<211> 1553

<212> DNA

<213> Homo sapiens

<400> 305

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<210> 306

<211> 1987

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (731)

<223> n equals a,t,g, or c

<400> 306

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<210> 307

<211> 785

<212> DNA

<213> Homo sapiens

<400> 307

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aaaaa 785

<210> 308

<211> 2178

<212> DNA

<213> Homo sapiens

<400> 308

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<210> 309

<211> 875

<212> DNA

<213> Homo sapiens

<400> 309

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<210> 310

<211> 756

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (638)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (684)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (756)
<223> n equals a,t,g, or c

<400> 310
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<210> 311
<211> 851
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (834)
<223> n equals a,t,g, or c

<400> 311
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tgggaaaggc ttttcaagta tgctagaata ttgcaagcat ttaaattcac atttatctga 420

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gttttgaaat gaaagggaat taataagtca ccttccagtc catgagacaa cttgattatt 600
ctctttaact tacagaatgt tagtttaaaa taataaatc atcctttttt tggagatgat 660
taaatggatg attgtaaaca caacttatga aatctgcctt taacaagtaa ctttttttaa 720
ttataaaatt ttattggcat tgctccattt tctgtatata aatatactt taatgtgga 780
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ctcactaatc c 851

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<210> 312

<211> 1335

<212> DNA

<213> Homo sapiens

<400> 312

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<210> 313

<211> 516

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (505)

<223> n equals a,t,g, or c

<400> 313

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ctgagggagg cgcgagggcg cggagttcca ggtcgagcag ttaggccgcg agcgactgcg 120
gcgccgagcc gatgagtaac ccgaagcccc tagaggagtg gtcacctgcc tgagggcact 180
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ggcccccaag accatcgtgc ggggcagcaa argtgccaaa gatggggccc tcacgtgct 480
gctggacgag tttgagaaca tgttngtgac acgctt 516
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<210> 314

<211> 1833

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (625)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1761)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1766)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1792)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1806)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1827)

<223> n equals a,t,g, or c

<400> 314

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acatagcccc  aaatatagta  ngrtcntata  ctagrtwaty  cctgggtgga  angtttgagg  1800
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<210> 315

<211> 1354

<212> DNA

<213> Homo sapiens

<400> 315

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<210> 316

<211> 2421

<212> DNA

<213> Homo sapiens

<400> 316

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2421

<210> 317

<211> 1092

<212> DNA

<213> Homo sapiens

<400> 317

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<210> 318

<211> 1380

<212> DNA

<213> Homo sapiens

<400> 318

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<210> 319

<211> 2612

<212> DNA

<213> Homo sapiens

<400> 319

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<210> 320

<211> 943

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (52)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (54)

<223> n equals a,t,g, or c

<400> 320

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<210> 321

<211> 2959

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2948)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2956)

<223> n equals a,t,g, or c

<400> 321

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<210> 322

<211> 802

<212> DNA

<213> Homo sapiens

<400> 322

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<210> 323

<211> 1724

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1590)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1650)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1701)

<223> n equals a,t,g, or c

<400> 323

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aat t t t t g c a a a c a c g a g g c t g c a g t c a g t t c g g g a a g g c t g t a g g a c c c g c a g c c a g t g c 300
a g g c a c t c t g g a c c t c t c a g g g t g c g a t g a a g t t t c c a g c g c g g a g t a c c a g g g g a g c a 360
a c c a a c a a a a a g c a g a g t c c c g c c a g c c c t c a g a g a a t t c t g t g a c t g a t t c c a a c t c c 420
g a t t c a g a a g a t g a a a g t g g a a t g a a t t t t t t g g a g a a a a g g g c t t t a a a t a t a a g c a a 480
a a c a a a g c a a t g c t t g c a a a a c t c a t g t c t g a a t t a g a a a g c t t c c c t g g c t c g t t c c g t 540
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g g a a t c t g c a a c t g c a g t t t c t g c c g g c a g c g a g a t g g a c g g t g t g c g a c t g g g t c c t t 1140
g t g t a t t t a g c c a a a t a t c a t g g c t t t g g g a a t g t g c a t g c c t a c t t g a a a a g c c t g a a a 1200
c a g g a a t t t g a a a t g c a a g c a t a a t a t c t g g a a a a t t t g c t g c c t g c c t c t a c t t c t c a 1260
a a t c t t t c t t g t a a a g t t t c c a a t t t t t c a c t g a a a c c t g a g t t a a a a t c t t g a t g a 1320
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g a a t t t c a g a g a g a g c c t a a t a g c a a a n t t t a c a c a a a a a c g a g t a t g a t t t a g c a c t 1680
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<210> 324

<211> 2261

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1098)

<223> n equals a,t,g, or c

<400> 324

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g a a t g c g t t g a g g a a g c a t a a a g a c t t g t t g g g t a a a g a t a c a t t g a a c t c t t c a g g a g 120
c a c a g c a g c t g a a g t t c a g c a g g t g c t g a a t c g a t t c t c c t c g g c c c c t c a t t c c a c t 180
t c c a a c c c c t c c c a t t a t t c a g t a c t a c c t c a g c a a t t t g t g c c c c c t a c a a t g t t a g 240
a g a c t g t a t a c g c c t t c g a g g t c t t c c c t a t g c a g c c a c a a t t g a g g a c a t c c t g g a t t t 300
c c t g g g g g a g t t c g c c a c a g a t a t t c g t a c t c a t g g g g t c a c a t g g t t t g a a t c a c c a 360
g g g c c g c c c a t c a g g a g a t g c c t t t a t c c a g a t g a a g t c t g c g g a c a g a c a t t t a t g g c 420
t g c a c a g a a g t g t c a t a a a a a a a c a t g a a g a c a g a t a t g t t g a a g t c t t c a g t g t t c 480
a g c t g a g g a g a t g a a c t t t g t g t a a t g g g g g c a c t t t a a a t c g a a a t g g c t t a t c c c c 540
a c c g c c a t g c c t g t c c t c c c t c c t a c a c a t t t c c a g c t c c t g c t g c a r t t a t t c c t a c 600
a r a a r c t g c c a t t t a c c a g c c t c t g t g a t t t t g a a t c c a c g a g c a c t g c a g c c t y c a c 660
a g c g t a c t a c c a g c a g g c a c t c a g c t c t t c a t g a a c t a c a c a g c g t a c t a t c c c a g t g t 720
t t g a a a g a t g t a t g g t g a t c t t g a a a c c t c c a g a c a c a a g a a a c t t t c t a g c a a a t t c a g 780
g g g a a g t t t g t c t a c a c t c a g g c t g c a g t a t t t t c a g c a a a c t t g a t t g g a c a a a c g g g c 840

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ctgtgcctta tcttttggtg gagtgaaaaa atttgagcta gtgaagccaa atcgtaactt 900
acagcaagca gcatgcagca tacctggctc tttgctgatt gcaaataggc atttaaaatg 960
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taaggaagct tcattttingt atattcccgc tcttttctct tcatttccct gtcttctgca 1140
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cttaggagaa agaataaaat tgttattttc ccagtctctt ggccatgatg atatcttatg 1260
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ccacaaaaca tacaagttt aaaagtttgg atctttttct cagcaggtat cagttgtaaa 1380
taatgaatta ggggccaana tgcaaaacga aaaatgaagc agctacatgt agttagtatt 1440
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aagtgaagca atttgaacag tgtattctag aaaacaatac actaactgaa cagaagttaa 1620
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taagatcgaa aagaaatttc tgtatacttg atgccttaag atgccccaaag ctgccccaaag 2160
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<210> 325

<211> 1213

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1213)

<223> n equals a,t,g, or c

<400> 325

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tggaacgctg ggtcgaccca cgcgtccggt caaaaytaac cccctaataa aattaattaa 60
ccactcattc atcgacctcc ccaccccatc caacatctcc gcatgatgaa acttcggctc 120
actccttggc gcctgcctga tcctccaaat caccacagga ctattcctag ccattgcacta 180
ctcaccagac gcctcaaccg ccttttctac aatcgccac atcactcgag acgtaaatta 240
tggtgaatc atccgctacc ttcacgcaa tggcgctca atattcttta tctgcctctt 300
cctacacatc gggcgaggcc tatattacgg atcatttctc tactcagaaa cctgaaacat 360
cggcattatc ctctgcttg caactatagc aacagccttc ataggctatg tcctcccggt 420
aggccaaata tcattctgag gggccacagt aattacaaac ttactatccg ccattccata 480
cattgggaca gacctagttc aatgaatctg aggaggctac tcagtagaca gtcccacct 540
cacacgattc tttacctttc acttcatctt gcccttcatt attgcagccc tagcagcact 600
ccacctccta ttcttgcaag aaacgggac aaacaacccc ctaggaaatca cctcccatc 660
cgataaaatc acctccacc cttactacac aatcaaagac gccctcggct tacttctctt 720
ccttctctcc ttaatgacat taacactatt ctcaccagac ctctaggcg accagacaa 780
ttatacccta gccaacccct taaacacccc tccccacatc aagcccgat gatatttctt 840
attcgcctac acaattctcc gatccgtccc taacaaacta ggaggcgctc ttgccctatt 900
```

```

actatccatc ctcatcctag caataatccc catcctccat atatccaaac aacaaagcat 960
aatatttcgc ccactaagcc aatcaacttta ttgactccta gccgcagacc tcctcattct 1020
aacctgaatc ggaggacaac cagtaagcta cccttttacc atcattggac aagtagcatc 1080
cgtactatac ttcacaacaa tcctaatacct aataccaact atctccctaa tkgaaaacaa 1140
aatactcaaa tgggcctaaa aaaaaaaaaa aaaaacycgg gggggggcgg ggtwcccaat 1200
ttcccccta ggn 1213

```

<210> 326

<211> 2764

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (372)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2128)

<223> n equals a,t,g, or c

<400> 326

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tggaacagtca ggctgggagc atccgggctc aggccgkca rgartcagaa cgcctggccc 120
gggacaagaa tgctcctta cagctgctgc aaaaggagaa ggagaagctg actgtgctgg 180
aaaggagata cactcactc acagggggca ggcccttccc gaagaccaca tcgaccctca 240
aagaggttta ccgctccaag atggatggcg aggccaccag ccccttccc cggaccgcga 300
gcggccccc cctcctcct ctggctcttc ctccctctcc tcccagctca gcgtggctac 360
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tcctcgcaac ctggcagcca cactgcagga catcgagacc aagcgccaac tagctctgca 480
gcagaaggga caacaagtga ttgaagagca gcggcgcgga ctggctgagc tgaagcagaa 540
agcggcagtg aggcacagtg ccagtggat gcccttcacg gggcagcacc ctcccagcg 600
ggcccccctg gctcccccc tctcatgcac cactctatcc tacaccacct gcctgcgggg 660
cgggagcgtg gggaggagg tgagcacgcc tatgatacgc tgagtctgga gagctctgac 720
agcatggaga ccagcatctc caccgggggc aactcggctg ctcccctgac aacatgtcca 780
gcgcgagtg tctggacatg gggaagatcg aggagatgga gaagatgctg aaagaggctc 840
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ccctggagga ggagcggcgg aggcgtkaca ggtagaacgg aggctgcaga gtgagagtgc 960
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gccaagaaga ggtttttccg ctccactat ggtgactgag aagcccgaac ccagccctca 1380
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tgcttatctg gatgagatgc attgtcacag gggctgagg ctacactcag ttcatgaact 1500
aactgccgtg ggccctcctg cagagcacia ctggggcttt tgtataagaa gactttaata 1560
ttctgtaagg agcttggtcc tgtgagtttc tgggctctg cctcctgaag aaccgcccag 1620
aagaagaaaa gtagaggtgg ctttgcgtgc tcctgggagc ccagaacttg cagtaaccct 1680

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ttaggtcctg ccccaggccc agccagggtt gaggagctgt cacagagagg gcctcagctc 1740
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gcccagccca ctgcttcagc tgtgggcnat ctgagggtac gtgccatcat ctctccagcc 2160
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gtttccgaca gggaaagagg attcctccaa tgctcctaga gagaagccct gaggaggaga 2460
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ccaggctggg ggttttcagt atttgtaagc atttcagcag aacaataaag cctttggact 2700
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gggc
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<210> 327

<211> 1764

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1398)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1758)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1759)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1762)

<223> n equals a,t,g, or c

<400> 327

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ggacatcaaa gatgaggagc ctggagactt tgggccgacc gaagcctgaa tgtgagggtt 60
acgaccccaa cgccctgtat tgcatttgcc gccagcctca caacaacagg tttatgattt 120
gctgtgaccg ctgtgaagaa tggtttcatg gcgatttgtt gggcatttct gaggtcagag 180
ggaggctttt ggaaagggaat ggggaagact atatctgccc aaactgcacc attctgcaag 240
tgcaggatga gactcattca gaaacggcag atcagcagga agctaaatgg agacctggag 300
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```

atgctgatgg caccgattgt acaagtatag gaacaataga gcagaagtct agcgaagacc 360
aagggataaa gggtagaatt gagaaagctg caaatccaag tggcaagaag aaactcaaga 420
tcttccagcc tgtgatatag ggccttggtg cctcaaaatg tattggcccc ggggtgctgtc 480
acgtggcgca cccgactcgg tgtactgcag taatgactgt atcctcaaac acgccgcagc 540
gacaatgaag tttctaagct caggtaaaga acagaagcca aagcctaaag aaaagatgaa 600
gatgaagcca gagaagccca gtcttccgaa atgcggtgct caggcaggta ttaaaatctc 660
ttctgtgcac aagagaccag ctccagaaaa aaaagagacc acagtgaaga aggcagtggg 720
ggtcctcgcg cggagtgaag cactcgggaa ggaagcagct tgtgagagca gcacgccgtc 780
gtgggagagc gatcacaatt acaatgcagt aaagccagaa aagactgctg ctccctcgcc 840
gtcactgttg tataaatgta tgtatcacct aggggttggt ctcttgacc cctcccgttc 900
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cacctagaac actgtcctga ccgagagcg cgtgccttgg acttggtatt ctacatgtga 1560
ctggctttct tgccctcgtc tcttgaatgt ttagactctt aagatcatac cctgccccaa 1620
atttcaaatt aatgaaatga agatatttca aacagatctt tgaaacctca gattctgttg 1680
tgcaatttta atgttttctt gtttctcagt tttctgctat aaaactattt tcaattcagt 1740
ctttaaaaaa aaaaaaannt cnaa 1764

```

<210> 328

<211> 571

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (535)

<223> n equals a,t,g, or c

<400> 328

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gccccantac ttccagccc agtaaggggt atttcaggag agcagtccac tkaaggttct 60
ttcccttttaa gatatgtgca ggatcaagtt ggggcacctt ttcagctgag taaccacact 120
ggccgcacatc aggtggtctt tactccgagc atctgtaaag tgacctgcac caagggcagc 180
tgtcagaaca gctgtgagaa ggggaacacc accactctca ttagtgagaa tggatcatgt 240
gccgacaccc tgacggccac gaacttccga gtggtaatat gccatcttcc atgtatgaat 300
gggtggccagt gcagttcaag ggacaaatgt cagtgccttc caaatttcac aggaaaactt 360
tgtcagatcc cagtccatgg tgccagcgtg cstaactttt atcagcattc ccagcagcca 420
ggcaaggcat tggggacgca tgtcatccat tcaacacata ccttgccctt gaccgtgact 480
agccagcagg agtcaaagtg aaatttcctc cttaacatag tcaatatcca tgtgnaacat 540

```

cctcctgaag cttccgtcca gatacatcag g

571

<210> 329

<211> 473

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (37)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (449)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (467)

<223> n equals a,t,g, or c

<400> 329

cacgtagtaa tctttaaata taaatagcca cgtgtgnact actatcatat gggacagaaac 60
agttccagac cacattattg ataagatgtg ttaaaataaa taagatcttt ctgtgaactt 120
ttgggaacca aatggttttg ggcatgattt cccagctcat tatatattga cacagaattt 180
tttcagaatg gcatttacta gtaccccaga aatttagcaa agtatagtta ggtacttatt 240
gtaaaatata ttgcataatt gatttaaggt ttgttatgaa cacactaatc tgatatttta 300
tatttaaaacc attttcaatk ctgtaagact cagtaagagc tatttaatta tactgwaaca 360
aagaaaatct ataaataaat agcacaaata ggcacatgcg ggtgtataat actgaagtgg 420
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<210> 330

<211> 1335

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (865)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1004)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1156)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1301)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1328)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1333)
<223> n equals a,t,g, or c

<400> 330
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gacatggagc agccctgctg ctgaggccgc gccctccccg ccctgaggtg gggggcccacc 120
aggatgagca agctgcccag ggagctgacc cgagacttgg agcgacgtg cctgcccgtg 180
cctccctggg ctctcactg tcccacagcc agagcctctc ctgcacctc cttccgcgc 240
ctgagaagcg aagggccatc tctgatgtcc gccgcacctt ctgtctcttc gtcaccttcg 300
acctgctctt catctccctg ctctggatca tcgaactgaa taccaacaca ggcacccgta 360
agaacttgga gcaggagatc atccagtaca actttaaaac ttccctcttc gacatctttg 420
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cctctctgag ctgctcagca aaggggcatt tggctacctg ctccccatcg totcttttgt 600
cctcgcctgg ttggagacct ggttccttga cttcaaagtc ctaccccagg aagctgaaga 660
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tgstctgtcc gagggacatt ctattcacc ccagaatcct ttgcagggtc tgacaatgaa 780
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cagcgagtgg aagacaacac cctcatctcc tatgacgtgt ctgcaagggg ctgcggggcg 1140
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acttgttcat cagggatcgc caccttcaca cagtgccaaag ccccccagcg acaaatatgt 1260
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tttgcaentt gtntg 1335

<210> 331
<211> 1046
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (982)
<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (997)

<223> n equals a,t,g, or c

<400> 331

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attggccttg agacatggtt ttttgtggtt gcagctgcag ctgtccccc gtcttttaac 120
tcgacatcaa aagcctctct cctgccagtg ccataggttt gttagagcta ctgttttgta 180
acagctgctc aggtgtcccc aaactcctgg agttttccac cctgagctgt taaaaacctg 240
ccctgcctgt caccatttc tgtgccacca gccaccccc tgccctccact ctccctccctg 300
ccaccttctg tccctgccat aggaatatgg ggacaccgtg tacaccattg aagttccctt 360
tcacggcaag acgtttatcc tgaagacctt cctgccctgt cctgcggagc tcgtgtacca 420
ggaggtgata ctgcagcccc agaggatggt gctgtggaac aagacagtga ctgccctgcca 480
gatactgcag cgagtggag acaacaccct catctcctat gacgtgtctg caggggctgc 540
ggcgggcgtg gtctcccaa gggacttcgt gaatgtccgg cgcattgagc ggcgagggga 600
ccgatacttg tcatcagga tcgccacctc acacagtgcc aagccccga cgcacaaata 660
tgtccgggga gagaatggcc ctgggggctt catcgtgctc aagtcggcca gtaacccccg 720
tgtttgcacc tttgtctgga ttcttaatac agatctcaag ggccgcctgc cccggtacct 780
catccaccag agcctcgagg ccaccatggt tgaatttgcc ttccacctgc gacascgcat 840
cagcgagctg ggggcccggg cgtgactgtg cccctccca cctgcgggc cagggctcctg 900
tcgccaccac ttccagagcc agaaagggtg ccagttgggc tcgcaactgc cacatgggac 960
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gstttgggtg gacattggat tcgggg 1046
```

<210> 332

<211> 1311

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1280)

<223> n equals a,t,g, or c

<400> 332

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agcagcccg aaattttatg aataagcatc agaagccagt gctaacaggc cagcggttca 180
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tccaggggct taatgaggct ggtgatgacc ttgaagctgt agccaaattt ctggactcta 300
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gcagtatgct tgcccctgga ggaacgcgca tagatgatgg tgacaagacc aagatgacca 420
accactgtgt gttttcagca aatgaagatc atgaaaccat ccgaaactat gctcaggctct 480
tcaataaact catcaggaga tataagtatt tggagaaggc atttgaagat gaaatgaaaa 540
agcttctcct ctcccttaaa gccttttccg aaacagagca gacaaagttg gcgatgctgt 600
cggggattct gctgggcaat ggcaccctgc ccgccaccat cctcaccagt ctcttcaccg 660
acagcttagt caaagaaggc attgcggcct catttgctgt caagcttttc aaagcatgga 720
tggcagaaaa agatgccaac tctgttacct cgtctttgag aaaagccaac ttagacaaga 780
ggctgcttga actctttcca gttaacagac agagtgtgga tcattttgct aaatacttca 840
ctgacgcagg tcttaaggag ctttccgact tcctccgagt ccagcagtc ctgggcacca 900
```

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ggaaggaact gcagaaggag ctccaggagc gtctttctca ggaatgcccg atcaaggagg 960
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atctcatgaa agcctttcag aagattgtgc ttctttatac catttcagta ttgcttcttc 1260
gctcagaaca tcagctttan tcgtgccgat tcggcacgag cggcacgagc c 1311
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<210> 333

<211> 1444

<212> DNA

<213> Homo sapiens

<400> 333

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ccacaggccc ctccccagc ctccagttcac agctgccctg ttgcaggagg gcggtggccc 180
ttctgttgct agaccgagcc tgtgggatat accaaggcag aggagcccat agccatgagg 240
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ccaacgcccg ccgacaacat ccaagtgcag gaaaacttca atatctctcg gatctatggg 360
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atgacagtga gcacgctggt gctgggagag ggcgctacag aggcggagat cagcatgacc 480
agcactcgtt ggccgaaagg tgtctgtgag gagacgtctg gagcttatga gaaaacagat 540
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gtccacacca actatgatga gtatgccatt ttctgacca agaaattcag ccgccatcat 660
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caggacttca gagtgtgtgc ccagggtgtg ggcatccctg aggactccat cttcaocatg 780
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aacgggaaca agttctactc agagaaggag tgcaagagat actgcggtgt ccctgggtgat 1260
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tggccagtggt ctgtcccggg gtctgtggc aggcagcgcc aagcaacctg ggtccaaata 1380
aaaactaaat tgtaaaactcc tgaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1440
aagg 1444
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<210> 334

<211> 1030

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (59)

<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (989)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1006)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1023)
<223> n equals a,t,g, or c

<400> 334
tagaattcgg agaagctgaa gcttagtggt ctaaacggtg gttgggaagg gggaaggang 60
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gctgtcctga ccacaccac tccttgctgc agccrtgkag tcttccactt tcgccttggg 180
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tcctgttgcc atcagtgcc agcacctgtg ctacagccat gtcactcctg gcgaccctgg 300
ggctggagct ggacagggcc ctgctcccag ctagtgggct gggatggctc gtagactatg 360
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tcccccaacc tcccccaacc ccacctgacc tggaagctat ggcctccctc ctcaagaagg 600
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cgccactacc accaccacca ctaccaccag cccctccct cccctgtcc ctccctcct 720
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acgaggccgg gcaggaggaa gtgggatgc cgcctctgcc ccgccacag cagccccctc 840
ctccttctcc acctcaacct tctgcctgg gccctacc cacatcctgc caccaccga 900
ggggaccgca agcaaaagaa gagagaccag aacaagtcgg cggtytgag gtaccgccag 960
cggaaggggg caggaggggt tgagggcynk gggaagggga agttgncagg gggttgggaa 1020
ggnaagggaa 1030

<210> 335
<211> 2127
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (72)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2098)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (2114)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2117)

<223> n equals a,t,g, or c

<400> 335

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ggatctgagg aaaggagggt cttttctgat ctctcccaat tagaggatta ggcaattggc 60
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gaactgcaca gagacctcgc agccccgaga actgtcgccc ttccacgatg tggtccctg 180
cctttatcct ggccactctc tctgcttccg cggcttgggc agggcatccg tcctcgccac 240
ctgtggtgga caccgtgcat ggcaaagtgc tggggaagtt cgtcagctta gaaggattg 300
cacagcctgt ggccattttc ctgggaatcc cttttgcaa gccgcctctt ggaccctga 360
ggtttactcc accgcagcct gcagaaccat ggagctttgt gaagaatgcc acctcgtacc 420
ctcctatgtg cacccaagat cccaaggcgg ggcagttact ctacagagcta ttacaaaacc 480
gaaaggagaa cattcctctc aagctttctg aagactgtct ttacctcaat atttactctc 540
ctgctgactt gaccaagaaa aacaggctgc cggatgatgt gtggatccac ggaggggggc 600
tgatgggtgg tgccgcatca acctatgatg ggctggccct tgctgcccat gaaaacgtgg 660
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acattgccag ctttgagggt aaccaggct ctgtgaccat ctttgagagag tcagcgggag 840
gagaaagtgt ctctgttctt gttttgtctc cattggccaa gaacctcttc caccgggcca 900
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aagggtatct gcagattggt gccaacaccc aggcgggcca gaagctgaag gacaaagaag 1800
tagctttctg gaccaacctc ttgccaaga aggcagtgga gaagccaccc cagacagaac 1860
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ggtggtgggg ggcaggggac agaggccatg aaggagcaag ttttgtattt gtgacctcag 2040
ctttgggaat aaagatctt ttgaaggcca aaaaaaaaaa aaaagggcgc ccttttangg 2100
gttcccaatt tacnaanggg tgcttgg 2127
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<210> 336

<211> 847

<212> DNA

<213> Homo sapiens

<220>
 <221> misc feature
 <222> (291)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (334)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (829)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (847)
 <223> n equals a,t,g, or c

<400> 336
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 tccccactoc ttctctcacg ccaagctctg actttccgtg ctccacgac ccgcggctcc 180
 ccctccgcac gtctttccct tgcgcacctc ccagtcctatg acccgggcgt gaccttcagg 240
 gaccgcggcc cgtatcgagg tccctgcccc gcgaacactg cgcgtttcgg ntctcgcgcg 300
 ctccgggtccc gtcccagag gtagcccgcc cggntccaac ttcgggcaaa attttcatgt 360
 cccctgcgg accgcgtgaa cgtgacggtg cggccggggc tggccatggc gctgagcggg 420
 tccaccgagc cctgcgcgca gctgtccatc tcctccatcg gcgtagtggg caccgccgag 480
 gacaaccgca gccacagcgc ccacttcttt gagtttctca ccaaggagct agccctgggc 540
 caggaccgga tacttatccg ctttttcccc ttggagtcct ggcagattgg caagataggg 600
 acggtcatga cttttttatg attgggcacg gagggatcca gggcatctgt gaactggctg 660
 cttcttccag agagatctct tggcagagtg agggcctgga gataaccagc tttggattat 720
 cccgcatgca acattcctgt gatcacataa tcctcttctt catcctcata tgaaataaat 780
 gaagagagct tcctcattca aaaaaaaaaa aaaaaaaccc cgggggggnc cggtaaccca 840
 ttggccn 847

<210> 337
 <211> 702
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (21)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (150)
 <223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (669)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (679)
<223> n equals a,t,g, or c

<400> 337
ttttccgccc cgctgtatcc natgggtccc tgtgccttcc ggctagaact gctcacagtc 60
ccgcctcttc cgctgcgtgc cggaccatgg cgcaggggca gcgcaagttt caggcgacaca 120
aaccgcgaaa gagtaagacg gcagcggcan cctctgaaaa gaatcggggc ccaagaaaag 180
gcggtcgtgt tatcgctccc argaaggcgc gcgtcgtgca gcagcaaaaag ctcaagaaga 240
acctagaagt cggaatccgg aagaagatcg aacatgacgt ggtgatgaaa gccagcagca 300
gcctgcccga gaagctggca ctgctgaagg ccccagccaa gaagaaaggg gcagctgccg 360
ccacctcctc caagacacct tcctgaggac gctggcccca gtgcaggcca acatcccacc 420
ccctacctcc atatgggacc ttgcaagtca tcccacaggc tgcaactgtca ggaagaggac 480
cctgtccccc agcactgggc ttcacctaga acttcagtgg gggccaaggg tgctgagaac 540
ccagcaatga ccaggaagat acagtcacta acttcactctg tccccgtgcc ccttcccagg 600
tcctgcctcc acaggtttta cccagaacaa taaacctggc ttigtcaama aaaaaaaaaa 660
agggccggnc gtttttagang atccagctta cgtaccgtgc tt 702

<210> 338
<211> 875
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (791)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (813)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (830)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (861)
<223> n equals a,t,g, or c

<400> 338

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taagatagca aaccagttcg ttttaagtaa gctaacttgt tcattagtat ctgtggctta 60
aatggcaaa aaagaaaata tccttgagtt tgtaatctag ttacagaagt aaggcataca 120
cacacacaaa gataacagta cctagagaga gagtgtgtgt gagtgtgcgt gtctctgtgt 180
gtgcacgtgc acgctcatgg ccaaatgtgc gcaactctaca taaaggaggc aggagttcct 240
ataggctatt taatgtaaga gaaactatctt ttctcctgtt ccagctgtat cagatactcg 300
ttccgcaaca cagaaatgac tcagaatctc agacaaaatg tattatttgt tcaattttaa 360
ttttgtact acattcataa ctcttaaat gttaggctgt ttcatctaca tcaaagttat 420
ctcacaaaag agaaggcagg aaacgttttg tgagtgccta ttctatgtca aacactgtgt 480
tggcaccata ttttacaagt ttttttccct ttctcacagt gatcttgta gttagtact 540
tatattttta ttagaactca ttattctggg taccctccaa tgagaattag agaggttaaa 600
taccttttcc tagattccca cagcaggaag gtgggcatag ctgttttgc tgacaccaga 660
accatctca ccacactgct ttacagtctt cctgaaggga cattttgagg tggggggggg 720
ccttcaaagc tcagaggact ggggttkgaa tgggtttaat ttttgcaagg gatccatgct 780
catgccaggg ngtttacaat tctttaactt ccntcccaaa ttcgtgtgtn ccattaggga 840
catttgggtt acatccgggc nggggagggg caggg 875

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<210> 339

<211> 1448

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1427)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1432)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1440)

<223> n equals a,t,g, or c

<400> 339

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cagcgccact agcctcattg tgcccaggag ttctccaaac ccgcgctgcg gagtgagtga 60
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tctgttttcc atccccttca ggtcccttcc cgggaggcgg cgaaggcggg ccacctgcg 180
cgtgatcctt yatgcccggc cctgcccct cctccgggt ggaacttccc cctcaccgc 240
agacttaagc tgaggatcgt tggatctctg gcggggtgca gaactgagcc caggccacag 300
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ggtaaaagca gctgttaaht atgcccttag cgtaggctac cgcacattg attgtgctgc 480
tatctacggc aatgagcctg agattgggga ggccctgaag gaggacgtgg gaccaggcaa 540
ggcgggtgct cgggaggagc tgtttgtgac atccaagtg tggaacacca agcaccaccc 600
cgaggatgtg gagcctgcc cccggaagac tctggctgac ctccagctgg agtatctgga 660
cctgtacctg atgcactggc cttatgcctt tgagcgggga gacaaccct tcccaagaa 720
tgcctgatgg actatatgct acgactccac ccactacaag gagacttga aggcctctgga 780
ggcactggtg gctaaggggc tgggtcaggc gctgggcctg tccaacttca acagtgcgca 840

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cagcttcttg gcctcccttc cagctctgca gctaataagg tcctgccaca acggaaagag 1380
ggagttaata aagccattgg agcatccaaa aaaaaaaaaa aaaaaanayc tngsggccgn 1440
caagggaa 1448

<210> 340

<211> 843

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (812)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (822)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (829)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (838)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (841)

<223> n equals a,t,g, or c

<400> 340

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tgcctcttaa gcaagagatt cattgcagct cagcatggct cagaccagct catacttcat 120
gctgatctcc tgccctgatgt ttctgtctca gagccaaggc caagaggccc agacagagtt 180
gccccaggcc cggatcagct gcccagaagg caccaatgcc tatcgctcct actgctacta 240
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gggcaacctg gtgtctgtgc tcaccaggc cgagggtgcc tttgtggcct cactgattaa 360
ggagagtggc actgatgact tcaatgtctg gattggcctc catgacccca aaaagaaccg 420
ccgctggcac tggagcagtg ggtccctggt ctccctacaag tcctggggca ttggagcccc 480

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aagcagtgtt aatcctggct actgtgtgag cctgacctca agcacaggat tccagaaatg 540
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gctggaaaaat acatgtctag aactgatcca gcaattacaa cggagtcaaa aattaaaccg 660
gaccatctct ccaactcaac tcaacctgga cactctcttc tctgtgagt ttgccttgtt 720
aatcttcaat agttttacct accccagtct ttggaaccyt aaataataaa aataaacatg 780
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naa 843

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<210> 341

<211> 1293

<212> DNA

<213> Homo sapiens

<400> 341

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acggatatcc tctgttgggg gagaagcaac attttgtgat ttccaaaaa taaaccatgg 180
aattctatat gatgaagaaa aatataagcc attttcccag gttcctacag ggggaagtttt 240
ctattactcc tgtgaatata attttgtgtc tccttcaaaa tcattttgga ctgcgataac 300
atgcacagaa gaaggatggg caccaacacc aaagtgtctc agactgtgtt tctttccttt 360
tgtggaaaat ggtcattctg aatcttcagg acaaacacat ctggaagggtg atactgtgca 420
aattatttgc aacacaggat acagacttca aaacaatgag aacaacattt catgtgtaga 480
acggggctgg tccacccctc ccaaatgcag gtccactgac acttcctgtg tgaatccgcc 540
cacagtacaa aatgctyata tastgtcgag acagatgagt aaatatccat ctggtgagag 600
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gaatcaatca taaartgcac acccttatcc agaactttag tattaatatca gttctyaatt 1140
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tgaaaatgta attataagct gagaccggtg gctctcttct taaaagcacc atattaaatc 1260
ctggaaaact aaaaaaaaaa aaaaaaaact cgc 1293

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<210> 342

<211> 1273

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (483)

<223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1247)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1262)
 <223> n equals a,t,g, or c

<400> 342
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<210> 343
 <211> 1793
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (1251)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1267)
 <223> n equals a,t,g, or c

<400> 343

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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 1793

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<210> 344

<211> 1672

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (95)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1667)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1668)

<223> n equals a,t,g, or c

<400> 344

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agcatctttg ctctccacct cctgcctctg cttatttctt gttctggaac taaatgaaca 660
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<210> 345

<211> 2109

<212> DNA

<213> Homo sapiens

<400> 345

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agttgtctg taagcaacta aactttttta tcatttttaa gaaacttttt agattgtatt 780
acaaatttgc cttaacagta attagatgtt gaataataat ttaacatttt attaatgact 840
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attcattctt aagcttttaac ttgaaggat cgtaattgcc ggcatttgat gtttagcaat 2040
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<210> 346

<211> 1714

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (21)

<223> n equals a,t,g, or c

<400> 346

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```

aacaagtcct cattgaaaaa cacttggaag tttccacac agaatttcag aatttattgg 1140
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gcctaggaga attgaaaaaa ctgttggaag cacacattca taatcagggt cttgcagcca 1260
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<210> 347

<211> 1672

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1667)

<223> n equals a,t,g, or c

<400> 347

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<210> 348
<211> 1483
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (19)
<223> n equals a,t,g, or c

<400> 348
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ttccctagaa cccagccag gtccgtggtg gccctgaaga ccccatcaa ggtggagctg 180
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<210> 349
<211> 1842
<212> DNA
<213> Homo sapiens

<400> 349
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gcagccagga tgactagatc ctgggtttcc atccttgaga ttctgaagta tgaagtctga 240
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<211> 3008

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (59)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (65)

<223> n equals a,t,g, or c

<220>

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<222> (1307)

<223> n equals a,t,g, or c

<400> 350

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<210> 351
<211> 2756
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2540)
<223> n equals a,t,g, or c

<400> 351
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<211> 1645

<212> DNA

<213> Homo sapiens

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<221> misc feature

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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1574)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1596)

<223> n equals a,t,g, or c

<400> 352

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<210> 353

<211> 1637

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (738)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (771)

<223> n equals a,t,g, or c

<400> 353

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<210> 354

<211> 1119

<212> DNA

<213> Homo sapiens

<400> 354

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<210> 355

<211> 738

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (654)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (689)

<223> n equals a,t,g, or c

<400> 355

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gcctccgtcc gggccctgct gtttgamatc tccttctca tgtgtgcca tgtggcccag 180

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<210> 356

<211> 1966

<212> DNA

<213> Homo sapiens

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<221> misc feature

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<220>

<221> misc feature

<222> (788)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1753)

<223> n equals a,t,g, or c

<400> 356

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attatgatga tatgagccct cgtcgaggac cacctcccc tcctcccgga cgaggcggcc 1080
ggggtggtag cagagctcgg aatcttcctc ttcctccacc accaccacct agagggggag 1140

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acctcatggc ctatgacaga agagggagac ctggagaccg ttacgacggc atggttggtt 1200
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tggcttatga accacagggg ggctccggat atgattattc ctatgcaggg ggtcgtggct 1320
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ctggatctat tattggcaaa ggtggtcagc ggattaaaca aatccgtcat gagtggggag 1440
cttcgatcaa aattgatgag cctttagaag gatccgaaga tcggatcatt accattacag 1500
gaacacagga ccagatacag aatgcacagt atttgctgca gaacagtgtg agcagtwma 1560
gwttagcttt gtgttagctt atacatacta aaacctttaa aaagcttttc ttctcaattg 1620
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gctgccaataa ccacttggtt aaaattgtac agagcctgta ggaaaatata gaaggttcca 1860
ttgggatgtt ggcctagttc tgtgtgggaa gacttagtgg attttgtttg ttttagata 1920
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<210> 357

<211> 1562

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (16)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (18)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (260)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (262)

<223> n equals a,t,g, or c

<400> 357

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tttgagggcc cagttcttga tcacaggtat tatgcagggt gatgctccc gcattacac 180
ctgaacacga ggtttaggaa gccctacaat gtggaagct acacgccaca gaccaaggc 240
aaatacgaat tcatattaan anagtatgaa tcatactcag attttgaacg caatgtcaca 300
gagaaaaatg caagcaagtc tggtttcagt ttggttttta aaatacctgg aatatttgaa 360
cttgcatca gtagtcaaaag tgatcgaggc aaacactata ttaggagaac caaacgattc 420
tctcatacta aaagcgtatt tctgcatgca cgctctgacc ttgaagtagc acattacaag 480
ctgaaaccca gaagcctcat gctccattac gagttccttc agagaggtta gcggctgcc 540
ctggagtaca gctacgggga atacagagat ctctccgtg attttgggac ccactacac 600

```

```

acagaggctg tgcttggggg catttatgaa tacaccctcg ttatgaacaa agaggccatg 660
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ggtgggtgcc ttgaagaggt ctacgtcagt ctgggtgtgt ctgtaggcaa atgcagaggt 780
attctgaatg aaataaaaga cagaaacaag agggacacca tgggtggagga cttggtgggc 840
ctggtacgag gaggggcaag tgagcacatc accaccctgg cataccagga gctgccgacg 900
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gagccctcaa gaactcaygc cagctcagcc ctacaccagt ttccacctgg agttcatgca 1440
agggcaaaag gcagtgccat gcaagctgtt taaaaataag atgttacctt gtaaaatgca 1500
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cg

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<210> 358

<211> 1931

<212> DNA

<213> Homo sapiens

<400> 358

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ctcgaccca gctcggagcc cggagcgtgc ctcggcggcc tgtcggtttt caccatggag 180
cagctgagct cagcaaacac ccgtctcgcc ttggacctgt tcctggcgtt gagtgagaac 240
aatccggctg gaaacatctt catctctccc ttcagcattt catctgctat ggccatggtt 300
tttctgggga ccagaggtaa cacggcagca cagctgtcca agactttcca tttcaacacg 360
gttgaagagg ttcatccaag attccagagt ctgaatgctg atatcaacaa acgtggagcg 420
tcttatattc tgaactttgc taatagatta tatggagaga aaacttacaa tttccttctc 480
gagtctcttg tttcgactca gaaaacatat ggtgctgacc tggccagtgt ggattttcag 540
catgcctctg aagatgcaag gaagaccata aaccagtggg tcaaaggaca gacagaagga 600
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aatgccatct atttcaaggg aaactggaag gataaattca tgaagaagc cacgacgaat 720
gcaccattca gattgaataa gaaagacaga aaaactgtga aaatgatgta tcagaagaaa 780
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ycttttttac attgaaaaaa atccagtgtg tgcctttgaa tgcataagat aaagaagaag 1560
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cctcctgata gccatgggaa aacatgataa gatggtcatt tattttgcag ttagaatttt 1680
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aattgaaatg taagagagca cccaattga gagcccaggt tacgaagaca agcttgccctc 1800
gcctgacttt tctgtccctt gttctgcagg attagtattc tgttacagac ctctagtttt 1860
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aaaaaaaaaa a                                     1931
```

<210> 359

<211> 869

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (869)

<223> n equals a,t,g, or c

<400> 359

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cCaaagtggga tgcactgaag aaagtgttgt tggatcaggg gggttttgcc ccgtgttttc 180
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caaaactacag cgggattatc ctgatgccct tatcaccaac tactatctat ggctgctgt 300
gcakttagcc aacttctacc tgggtccccc t cattacagg ttggccggtg tccaatgtgt 360
tgctgttatc tggaaactcct acctgtcctg gaaggcacat cggtcttaag cctgcctcac 420
tccatcgttt ccaccttgca gtgatgcagc ttgacctgg aacggtcaga caacctcctc 480
aaagtgggca taccagtctc cacgggggtg gggtgccggt cagagcttaa gaggactagc 540
accctgcaat gccctcttc actctaaaat gtacactgac tgcttttagag cccttgataa 600
tagtcttatt ccaccacat actaggcact ccataaatat ctgttgaaac ttcattgacct 660
tatcaacttt acaccatat ccagcaaat gccactcatc cccactcttc atagacacat 720
ttgttactct aaccctgcct aggtctcttg tagctccagc tcttttagaga ctcccggaa 780
ccttttatatg gtgcctcagt aaatatgtta ttaaataatgt aatccggaaa aaaaaaaaaa 840
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa                                     869
```

<210> 360

<211> 561

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (521)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (525)

<223> n equals a,t,g, or c

<220>

<221> misc feature